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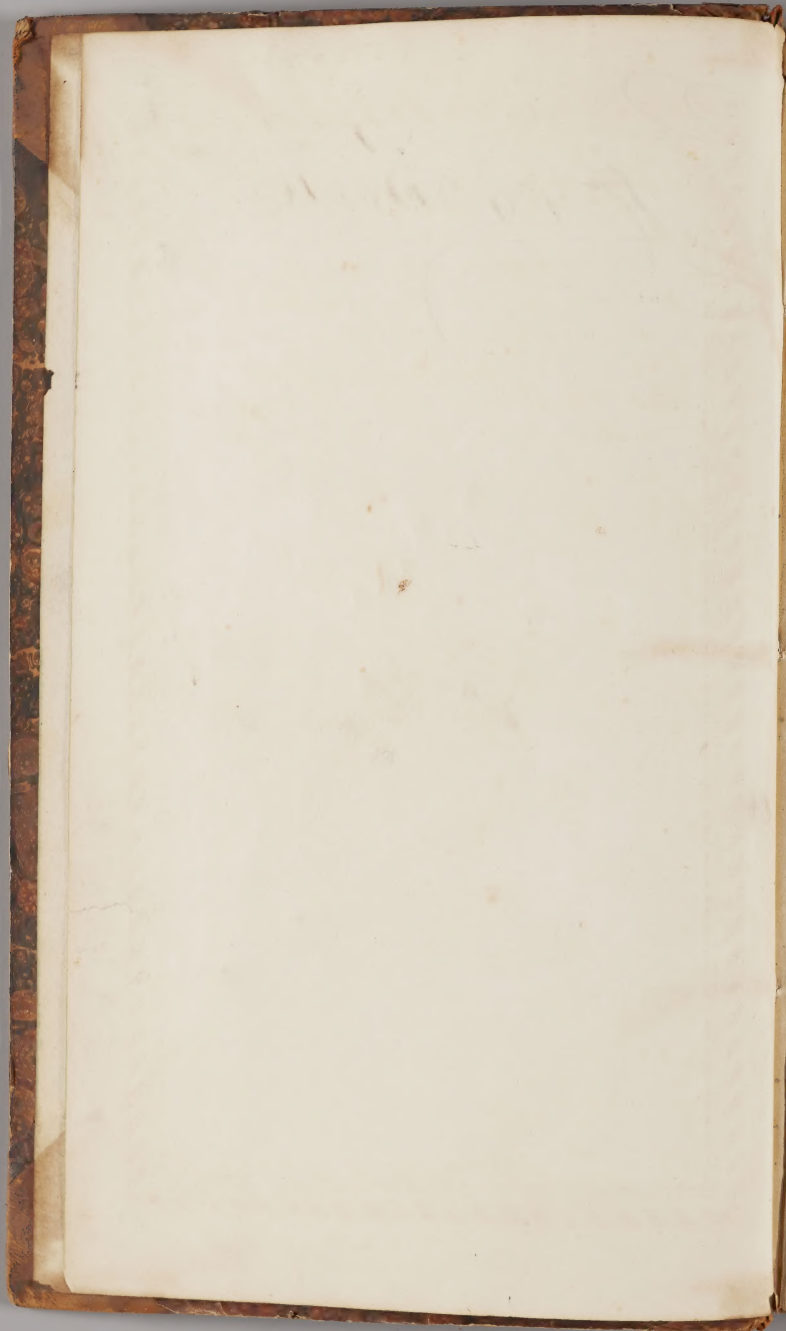
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# Log Book



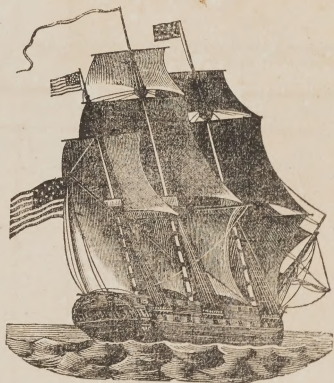


# Sea Journal.

## JOURNAL OF A VOYAGE.

From *Salem* to *India* in  
the -- *Brg Neptune* -- commanded  
by -- *Wm Osgood*  
Begun *September 30<sup>th</sup>* --- 1831, and  
terminated 182.

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Brig. *Septum* from *Putern* towards *Maica*

H. K. H.K. Courses. Winds. Lee. Remarks. *Friday September 30th 1834*

1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

*Through the Day pleasant weather  
Employed in making preparations for  
got the vessel out in the stream  
at Sun Set  
at 7 30 in the Morning got the crew  
on board  
at 9 the Pilot came on board  
weighed anchor and proceeded  
to sea  
at 10 30 the Discharge the Pilot  
at Meridian set the Starboard  
Sloopmast & lower Mastails*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

H. K. H.K. Courses. Winds. Lee. Remarks. *Saturday 1st October 1834*

1						
2	4		ESE	NW		
3	4			NW		
4	5	1				
5	5	1				
6	6					
7	6					
8	6					
9	5			NW		
10	4					
11	3	1		NW		
12	4					
1	6		E 1/2 S			
2	6					
3	5					
4	4					
5	3		ESE 1/2 S			
6	3					
7	3		SSE			
8	3					
9	3		NW NWSE			
10	3					
11	3		SE 1/2 S			
12	3					

*Commenced with gentle breeze and  
good weather  
at 1 P.M. the light House on the  
Island bore N.E. distant about  
7 miles from which I took my  
Departure  
at 2 took in the lower Mastails  
at 7 took in the Royal & 3d gull sails  
at Midnight Jibed Ship and took  
in the fore & 1st Mast Mastails  
at 10 the tackle Ship to the  
Eastward  
Firmament Moderate & pleasant*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
114 E	91	26-4	37-8		42-3	3/4	1-58	68-56	

*1 Day out*



*Brig. Neptune from Salem towards India*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1				SW		Commences with moderate breezes & Pleasant weather at 9 <sup>th</sup>
2	4		ES E			weighed the anchor and proceeded
3	4			SW SW		to sea with a light breeze from the
4	4					SW. at 10 <sup>th</sup> passed Baker Island
5	5	1				at 10.30 Discovered the 23 <sup>rd</sup>
6	5	1				at midnight set the sheet and
7	6					standing sails
8	6			West		at 1 <sup>st</sup> the light houses on
9	5					Thatchers bore NNE distance
10	4					about 8 miles from Cape & took
11	3	1		SW		my 3 <sup>rd</sup> two
12	4					at 2 took in the lower studding
1	6		ES E			at 7 took in the Royal & 1 <sup>st</sup> & 2 <sup>nd</sup>
2	6	1				sails. at midnight fore & 1 <sup>st</sup>
3	5					& took in the fore & 1 <sup>st</sup> mast studding
4	5		ESSE			at 10 <sup>th</sup> took the ship to the
5	4					Eastward
6	3		SE	SENE		Terminated Moderate & Pleasant
7	3					
8	3		SE	SENE		
9	3		SE	SENE		
10	3					
11	3		ENE			
12	3					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1/4 E	81	26 1/2	87 1/2		42-03	3/4	1-58	68-36	

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	3		ENE	SE E		Commences with fine breeze
2	4					& Pleasant weather
3	5					
4	6					
5	7	1				at 7 took in the Royal
6	7	1				
7	7					
8	8					
9	8					
10	8					
11	8		ENE	SENE		Middle Part Pleasant
12	8					set the Royal and fore & 1 <sup>st</sup>
1	8					mast & 1 <sup>st</sup> mast
2	8					
3	8	1				
4	7					
5	5		SE E	SW		at 8.30 the ship the Brig Elise both
6	5					from Havana bound to Boston
7	5					ends with fresh breeze
8	5					and good weather
9	5	1				
10	5					
11	5					
12	5					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1/4 E	168	1-3	168		42-22	3/4	3-46	64-50	62-39

2 Days out



Brig. Neptune from Salem towards India

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	8		SEB	SW		Commenced with fine breeze & pleasant weather
2	5	1				
3	1					
4	6	1				at 4 P.M. let top go & lower
5	1					studd into
6	1					at 8 took in the lower & let
7	1					go & studd into
8	1					
9	1					
10	1	1				Brisk Part pleasant
11	1					
12	1					
1	1					
2	1					
3	6					Morning let top go & studd into
4	5					
5	4	1				
6	4	1				
7	4					
8	5					Boat Part Moderate &
9	6		SEB			Heavy
10	6					
11	5	1				No Obs
12	4	1				Chrom

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
468 E	155	143	99	41-45	41-08	3/4	3-10	61-40	61-11

3 Days out

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	5		SEB	SW		Commenced with fine breeze & good weather
2	5					
3	5					
4	6					
5	6		SE			Ran new fore & fore top go & braces
6	6					the untwist the cables
7	6					
8	6					
9	6					
10	6					Brisk Part & Pleasant
11	6					
12	6					
1	5					
2	4	1				
3	4	1				
4	3	1				
5	3	1				Part Part Moderate & Heavy
6	4					
7	4					
8	3					Bent the New fore sail & main sail to try sail
9	3					
10	3					
11	4					
12	5					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
56 E	110	66-9	99		40-48	3/4	2-11	59-30	58-53

4 Days out

Brig. Neptune from Valm towards India

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	5	1	<del>SW</del> SE	SW	WS	Commences with Moderate breezes and Pleasant weather
2	5	1				
3	5	1				
4	5	1				
5	5	1				
6	5	1				
7	4					
8	3					
9	2					at 10 P.M. took in the Sloop mast
10	1	1				& set 1st stand sail
11	1	1		North		
12	3					at 11 fresh breezes and squally
1	5					Appearance took in Royals
2	5					& flying jib
3	5			SE		
4	5					
5	5			SE		Middle part Cloudy
6	5	1				
7	5	1				at 9 took the Royals and
8	5					Sloop mast stand sail
9	5					
10	5					Breezes more moderate &
11	6	1				Cloudy
12	6	1				

6 Days out

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	157	76	114		39-42	1	2-26	57-4	56-21

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	5	1	SE	SE		Moderate breezes & Cloudy
2	5	1				
3	5	1				
4	5	1	SE	SE		
5	5	1				
6	2					at 7 hauled Calm, at 8 took
7	2	1				in the Royals & flying jib
8	4		SE	SE		at 12 Tacked Ship to the Eastward
9	4					
10	5					Middle part fresh breezes &
11	5					Squally took in the 1st golt
12	5					Sails
1	6					
2	6					
3	6					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

7 Days out

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	95	47	85		39-2	1	1-49	55-10	54-15

Chrom

Tri. repletem from *Quartern* towards *Sp. side*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		100	100		
3	4					
5	6					
7	8					
9	10					
11	12					
1	2					
3	4					
5	6					
7	8					
9	10					
11	12					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100	199	81.2	71.5		57.40	1	1.37	5.5	10-4

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		100	100		
3	4					
5	6					
7	8					
9	10					
11	12					
1	2					
3	4					
5	6					
7	8					
9	10					
11	12					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100	169	100	71.5		56.5	1.4	2.56	45-48	11-40

Time from 10 <sup>th</sup> towards India						Remarks.
H.	K.	h. R.	Courses.	Winds.	Lee.	Remarks.
1	6		SE	SE		
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6	/				
2	6	/				
3	6	/				
4	6	/				
5	6	/				
6	6	/				
7	6	/				
8	6	/				
9	6	/				
10	6	/				
11	6	/				
12	6	/				

Courses.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	105	10	105	14	14	1/2	-6	46	42

Time from <i>10<sup>th</sup></i> towards <i>India</i>						Remarks.
H.	K.	h. R.	Courses.	Winds.	Lee.	Remarks.
1	5		SE	SE		
2	5					
3	4					
4	4					Commenced taking up the School
5	5					the current down in
6	5					
7	5					the boat in the harbor
8	4					the boat to let the boat on it
9	5					
10	4					
11	5					at 11 o'clock left in the harbor
12	5					the ship in the
1	4		SE	SE		
2	6					
3	6					
4	5					at 4 o'clock left in the port
5	6					the boat to let the boat on it
6	6					
7	5					the boat to let the boat on it
8	5					
9	5		SE	SE		
10	5					
11	5					the boat to let the boat on it
12	5					the boat to let the boat on it

Courses.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	105	10	105	14	14	1/2	-6	46	42



*orig. Neptune from Salem towards India*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6	/	SE	SE		
2	6	/				
3	6	/				
4	6	/				
5	6	/				
6	6	/				
7	6	/				
8	6	/				
9	6	/				
10	6	/				
11	6	/	SE			
12	6	/				
1	6	/	SE			
2	6	/				
3	6	/				
4	6	/				
5	6	/	SE			
6	6	/				
7	6	/				
8	6	/				
9	6	/	SE			
10	6	/				
11	6	/				
12	6	/				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE	113	16 2 12			51 11	12	2 52	12 53	4 50

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6	/	SE	SE		
2	6	/				
3	6	/				
4	6	/				
5	6	/	SE			
6	6	/				
7	6	/				
8	6	/				
9	6	/				
10	6	/				
11	6	/	SE			
12	6	/				
1	6	/				
2	6	/				
3	6	/				
4	6	/				
5	6	/	SE			
6	6	/				
7	6	/				
8	6	/				
9	6	/	SE			
10	6	/				
11	6	/	SE			
12	6	/				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE	105	104 9 82 0			29 44	12	1 50	10 58	40 00

Brig. *Apinone* from *Palem* towards *India*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	6		South	WSE		Thursday October 13 <sup>th</sup> 1831
2	6					
3	4	1		W		Commenced with moderate breeze
4	4	1				& rising clouds
5	4	1				
6	4	1		var.		we thickened the anchors and
7	3	1	SW			steered them on the forecastle.
8	3	1				
9	3	1				
10	3	1	SW			
11	3	1				Made port. Moderate
12	3	1				South squally & hazy
1	3	1				
2	3	1	SE	East		at 4. M. Ankerly Calm
3	3	1				
4	3	1				
5	2	1				
6	2	1				
7	3	1				Least part Moderate breeze
8	3	1				and pleasant
9	3	1				
10	3	1				
11	3	1				
12	2	1				

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	1	3 <sup>m</sup> 3	25 <sup>m</sup> 4		25-28	1	29	40-29	39-36

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	5	1	SE	SE		Friday October 14 <sup>th</sup>
2	5	1				
3	5	1				
4	5	1				Commenced with moderate breeze
5	5	1	SE			& pleasant
6	5	1				
7	5	1	SE			
8	5	1				
9	5	1	SE			at 2. P. we went to the fore & by
10	5	1				way
11	5	1				
12	5	1	SE			Made port - Pleasant
1	5	1				
2	5	1	SE			
3	5	1				
4	5	1	SE			at 1. P. we went to the fore & by
5	5	1				way
6	5	1				
7	5	1				
8	5	1	SE			
9	5	1				
10	5	1				Commenced with moderate breeze
11	5	1				& pleasant
12	5	1				

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	1	8 <sup>m</sup> 2	25 <sup>m</sup> 4		25-28	1	29	50-29	38-46

*Long. latitude from Salem towards Yuma*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	4		110 E	21 S		
2	4					
3	4					
4	4					
5	5		110 E			
6	5					
7	5					
8	5					
9	5					
10	5					
11	2		110 S			
12	2					
1	3					
2	3		110 E			
3	2					
4	2					
5	2					
6	2					
7	2		110 E			
8	2					
9	2		110 E			
10	2					
11	2					
12	2					

*Long. lat.*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
122 E	64	59.0	94.2		26.14	1	28	18.19	38.20

*Monday October 16th*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	3		110 E	21 S		
2	3					
3	2		110 E			
4	2					
5	2					
6	1					
7	1		110 E			
8	2					
9	2					
10	2					
11	2					
12	2					
1	1					
2	1					
3	1					
4	1					
5	1		110 E			
6	1					
7	1		110 E			
8	2					
9	2		110 E	21 E		
10	2					
11	2					
12	2					

*Long. lat.*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
181 E	47	35.6	22		25.25	1	28	58.24	27.40

By ship from *Tahiti*

towards *India*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	2	1	SE	SE		
2	2	1				
3	2	1				Commenced with light breeze
4	2	1				& pleasant weather
5	2	1				at 10th let the landward
6	2	1				the sails
7	2	1	SE			
8	2	1				at 11 let the sails on the lower
9	2	1				and the great sheet sail
10	2	1				
11	2	1				
12	2	1				at 12 let the sails on the lower
1	2	1	SE			and the great sheet sail
2	2	1				
3	2	1				
4	2	1				at 1st let the sails on the lower
5	2	1				and the great sheet sail
6	2	1				
7	2	1				
8	2	1				
9	2	1	SE			at 11 let the sails on the lower
10	2	1				and the great sheet sail
11	2	1				
12	2	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	24	66-5	12		26-41	1	1-15	37-11	36-28

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	2	1	SE	SE		
2	2	1				
3	2	1				Commenced with light breeze
4	2	1				& pleasant weather
5	2	1	SE			
6	2	1				
7	2	1				
8	2	1				at 11 let the sails on the lower
9	2	1				and the great sheet sail
10	2	1				
11	2	1				
12	2	1				at 12 let the sails on the lower
1	2	1				and the great sheet sail
2	2	1				
3	2	1	SE			
4	2	1				
5	2	1				
6	2	1				
7	2	1				
8	2	1				
9	2	1	SE			at 11 let the sails on the lower
10	2	1				and the great sheet sail
11	2	1				
12	2	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	24	66-5	12		26-41	1	1-15	36-26	36-24





*Ship from Daman towards India*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	2		180	SW		Arrived October 21 <sup>st</sup> 1831
2	2					
3	2					Commenced with strong trade
4	0					W. by S. wind
5	1		180			
6	1					
7	1					
8	1					
9	1		180			
10	1					Winds. but some clouds
11	1					Winds
12	1					
1	2					
2	2					
3	2					
4	2					
5	6		180			
6	6					
7	6		180			Light sail as usual & strong
8	6					fine swell
9	6					
10	6					Employed in the standing
11	6					sail
12	6					

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
180	142	11	12.5		18.45	1	1.25	22.29	93.3

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	2		180	SW		Arrived October 22 <sup>nd</sup>
2	2					
3	2					Commenced with strong trade
4	2					W. by S. wind
5	2					
6	2					
7	2					
8	2					
9	2		180			Winds. but some clouds
10	2					and some rain
11	2					
12	2					
1	2					Light sail as usual & strong
2	2					fine swell
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					Employed in the standing
10	2					sail
11	2					
12	2					

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
180	142	11	12.5		18.45	1	1.25	22.29	93.3

13 mi. S. by E. from *Tuam* towards *Indie*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1			SE	East		Through the base of the mountain some fumes & windy weather
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5			SE			
6						
7			SE			
8						
9			SE			
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE	153	133	5		14 19		1 18	10 41	30 22

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1			SE	East		Waste stones & basalt weather all these four & twenty hours
2						
3						
4						
5				Variable		
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE	170	150 45	5		2 18	1	1 27	27 14	29 20

India

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	6		1/2 E	6 E		
2	6					
3	6					
4	6					
5	6	1	SE			Pine Oysters in Rocks very
6	6	1				common in these places
7	X					
8	X					
9	X					
10	X					
11	X					
12	1					
1	6		1/2 E			Small Port Pleasant
2	6					at 1/2 the same a fair
3	6					sea & wind to the Southwest
4	6					
5	X					
6	6	1				at 1/2 the same a fair
7	6	1	SE			sea & wind to the Southwest
8	6	1				to 1/2 the same this weather
9	6	1	1/2 E			under canvas
10	6	1				
11	6	1	SE			Small Port Pleasant
12	6	1				

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
141	12	128	88		10:26	1	1:29	15:50	28:19

IL	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	6		BBB	en 6		Commenced with British vessel
2	6					to have been taken
3	6					
4	6					
5	6		BBB	en 6		in 1st part of the day the small
6	6					was not visible
7	6					
8	6					in 1st part of the day
9	6					
10	6					
11	4					under 1st of day
12	4		BBB			in 1st part of the day
1	5					
2	5					
3	6					in 1st part of the day
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	5					
11	5		BBB			in 1st part of the day
12	2					

Course.	Dist.	Dir. lat.	Dep.	Lat. by D.R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
	76	19	S	36	30		7 10	24 28	27 12



376. Fortune from Salem towards India

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	2		Salem			Thursday October 25 <sup>th</sup>
2	2					
3	2					
4	2					Commenced with light winds &
5	2					calm and heavy rain
6	2					
7	2					
8	2					
9	2					
10	2					Oct 11. With squalls & rain
11	2					with wind light in the night
12	2					
1	2		Salem			Monday Oct 12. with light wind
2	2					
3	2					Oct 13. 30. Light winds from the S.W.
4	2					to the S.W. wind & rain
5	2					drizzle
6	2					
7	2					Oct 14. Light winds from the S.W.
8	2					
9	2					Commenced with light winds &
10	2					rain & drizzle
11	2					
12	2					Oct 15. Observation

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N 15 E	55	56	16-4	7-50		24	7	24	19

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	2		Salem			Friday October 28 <sup>th</sup>
2	2					
3	2					Commenced with light winds &
4	2					drizzle with heavy rain
5	2		S 30 E	drizzle		
6	2					
7	2					
8	2					Oct 16. To the S.W. with
9	2					drizzle
10	2					
11	2					Monday Oct 17. with light winds
12	2					
1	2		S 30 E			Oct 18. To the S.W. with
2	2					drizzle & rain
3	2					
4	2					
5	2					
6	2					
7	2					Commenced with light winds &
8	2					drizzle & rain
9	2					
10	2					
11	2					
12	2					Oct 19. Observation

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N 15 E	46	36-6	24-4		7-58	24	26	24	50-6

*Wing. S. plume from 2 plume towards Indica*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	2		SSC	h. 12		
2	2			h. 12		
3	2					
4	2			variable		
5	2		South			At through these knots & towards the knots light airs &
6	2					
7	2					
8	1	1				variable attended with some light rain
9	1					
10	1		Endless			
11	1					At all the the winds towards
12	1					handed
1	2	1	South			
2	2	1				
3	2	1				
4	1					
5	1		Endless			
6	1					
7	1		SSC			Terminated before & very hot
8	1					
9	1					
10	1		Endless			
11	1					
12	1					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SSC	26	26.5	5.5		23.51	12	5	23.51	23.51

*Remarks. Tuesday October 30<sup>th</sup> 1851*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	0		Endless			
2	0					
3	2	1	South			Commenced knots light airs & towards
4	2	1				
5	2	1				
6	2	1	South			
7	2	1				at 2.15 the the the winds
8	2	1	South			
9	2	1				at 5 in all the winds
10	2	1				spends
11	2	1				at 6.00 the
12	1	1				from 6.15 the the winds
1	1	1				from 6.15 the the winds
2	1	1				
3	1	1				
4	1	1				at 2.15 the the the winds
5	1	1				
6	1	1				
7	1	1				
8	1	1				at 2.15 the the the winds
9	1	1				
10	1	1				
11	1	1				
12	1	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SSC	26	26.5	5.5		23.51	12	5	23.51	23.51

*Navigation from Salem towards India*

H.	K.	H.K.	Courses.	Winds.	Loc.	Remarks.
1	4		1830	SE		
2	4					
3	4					
4	4					Under the great storm
5	4		1840			Under the great storm
6	4					Under the great storm
7	4		1850			Under the great storm
8	4					Under the great storm
9	4					Under the great storm
10	4					Under the great storm
11	4		1900			Under the great storm
12	4					Under the great storm
1	2		1910			Under the great storm
2	2					Under the great storm
3	2		1920			Under the great storm
4	2					Under the great storm
5	2		1930			Under the great storm
6	2					Under the great storm
7	2		1940			Under the great storm
8	2					Under the great storm
9	2		1950			Under the great storm
10	2					Under the great storm
11	2		2000			Under the great storm
12	2					Under the great storm

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ol.	Varia.	Diff. Long.	Long. in	Long. by Ol.
29812	70	67-7	30		15-20	1/4	33	145	16

*Navigation from Salem towards India*

H.	K.	H.K.	Courses.	Winds.	Loc.	Remarks.
1	4		1830	SE		
2	4					
3	4					
4	4					
5	4		1840			
6	4					
7	4		1850			
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	4					
3	4					
4	4					
5	4		1910			
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ol.	Varia.	Diff. Long.	Long. in	Long. by Ol.
S. 2 E.	114	84.5	26.1		S = 24	1.0	25.12	21.1	

Brightline from Patom towards India

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	5		100/100	100/100		Transit of Venus 2 <sup>nd</sup>
2	5					
3	5					Commons with fine birds
4	5		100/100			and clouds
5	5					
6	5					From 100 to 80 miles
7	5		100/100	100/100		
8	5					
9	5					
10	5					From 100 to 80 miles
11	5					and clouds
12	5					
1	5					
2	5					
3	5					From 100 to 80 miles
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					From 100 to 80 miles
11	5					and clouds
12	5					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1st. c.	1.88	11 S. 1	N. 6		1 = 27	1/4 = 20	27-02	28-01	

Il.	R.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	6	1				Friday November 3
2	6	1				
3	6	1				
4	6	1				
5	6	1				
6	6	1				
7	6	1				
8	6	1				
9	6	1				
10	6	1				
11	6	1				
12	6	1				
1	6	1				
2	6	1				
3	6	1				
4	6	1				
5	6	1				
6	6	1				
7	6	1				
8	6	1				
9	6	1				
10	6	1				
11	6	1				
12	6	1				

Coun.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in.	Long. by Obs.
127	100	10	00		1000		2	25	29



*Big Sloop from Salem towards Paris*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	0		Starb.	SE		
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					
1	0					
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					

*Strongest breeze from  
North East with S.E.  
Trade winds and Breeze  
from*

*at 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
Starb.	168	61	40		54	1	46	28 38	29 50

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	0		Starb.	SE		
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					
1	0					
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					

*With strong S.E. breeze  
the sea got high with*

*at 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st*

*at 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st*

*at 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st*

*at 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
Starb.	170	66	34		62	1	46	29 50	30 50

Brig. *Septime* from *Salon* towards *India*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1			106			
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
106	170	1			0 10		18	20-58	20-49

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1			106			
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
106	180	1			12-14		20	20-58	20-49

from *Indine* towards *Indie*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
	166	166			15° 21'	7		50 11	29 14

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
150	80	150	40	17-51	18	12	40	29 78	28 2

Wing. kephene from *laum* towards *Inocui*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	✓		1st	1st		1st
2	✓		2nd	2nd		2nd
3	✓		3rd	3rd		3rd
4	✓		4th	4th		4th
5	✓		5th	5th		5th
6	✓		6th	6th		6th
7	✓		7th	7th		7th
8	✓		8th	8th		8th
9	✓		9th	9th		9th
10	✓		10th	10th		10th
11	✓		11th	11th		11th
12	✓		12th	12th		12th
1	✓		1st	1st		1st
2	✓		2nd	2nd		2nd
3	✓		3rd	3rd		3rd
4	✓		4th	4th		4th
5	✓		5th	5th		5th
6	✓		6th	6th		6th
7	✓		7th	7th		7th
8	✓		8th	8th		8th
9	✓		9th	9th		9th
10	✓		10th	10th		10th
11	✓		11th	11th		11th
12	✓		12th	12th		12th

Course.	Di-t.	Diff. Int.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
18	18	18	18		90 40		59	28-29	27-26

H.	K.	U. K.	Courses.	Winds.	Lee.	Remarks.
1						<i>Friday Nov 11<sup>th</sup></i>
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Country	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
S. E.	55	172.20	25	28				27.23	



*Brigantine from Salem towards India*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	✓					<i>Wednesday Nov. 28<sup>th</sup></i>
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. m.	Long. by Obs.
<i>S. 7 E</i>	<i>184</i>	<i>170</i>	<i>575</i>		<i>26 34</i>	<i>1</i>	<i>13</i>	<i>26 28</i>	<i>94 37</i>

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	✓					<i>Thursday November 29<sup>th</sup></i>
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. m.	Long. by Obs.
<i>S. 7 E</i>	<i>160</i>	<i>141.1</i>	<i>54</i>		<i>28 50</i>	<i>1</i>	<i>12 25</i>	<i>27 18</i>	<i>97 28</i>

from *St. John* towards *St. John*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
	36	2	3		34		1-24	15-50	22-4

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
	36	22	22		30-16	1/4	2-24	21-12	

Ship Neptune from Boston towards India

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	✓		SE	SE		
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE	175	121	150	54 53	55 20	34	1 44	1 38	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	✓		SE	SE		
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
SE	70	63	150		55 51	34	3 09	1 38	

Ship's course from *Albion* towards *India*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1-12	80	1-0			42		1-40	15-28	11-12

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1-12	80	1-0			36-59	14	1	15-06	9-56



*Brigantine from Boston towards Providence*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	f		SEB			
2	f					
3	f					
4	f					
5	f					
6	f					
7	f		SEB			
8	f					
9	f					
10	f		SEB			
11	f					
12	f					
1	f					
2	f					
3	f					
4	f					
5	f					
6	f					
7	f					
8	f					
9	f					
10	f					
11	f					
12	f					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
SEB	194	28-5	192	37-25		1/4	1-1	6-5	6-71

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	f		SEB			
2	f					
3	f					
4	f					
5	f					
6	f					
7	f					
8	f					
9	f					
10	f					
11	f					
12	f					
1	f					
2	f					
3	f					
4	f					
5	f					
6	f					
7	f					
8	f					
9	f					
10	f					
11	f					
12	f					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
SEB	163	37-8	177	37-84		1	3-12	2-4	7-50

My departure from *Palom* towards *Sancti*

11.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1			108	SE		beginning with rain.
2						clouds & rain continue
3						
4						
5			108	SE		at 3 P.M. was discovered by one
6						of the boats from the whaler
7						which drove off from us
8						7 minutes past 4 P.M. when
9						the vessel left us
10						at 1 P.M. 2 P.M.
11						at 10 P.M. was taken in the
12						and sent to the whaler
1						at 1 P.M. left in the morning
2						drifted & to the whaler
3						& by trail
4						
5						
6						at 1 P.M. the vessel was taken in
7						
8						the vessel left & to the whaler
9						these were the whaler's boats
10						
11						the vessel left & to the whaler
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
108	10	20	10		57° 50'		2° 33'	0° 52'	Lat 40

My departure from *Palom* towards *Sancti*

11.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1			108	SE		beginning with rain.
2						clouds & rain continue
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
108	64				57° 50'		2° 33'	0° 52'	Lat 40

From Portion from *Portion* towards *India*

H. K. H.K. Courses Winds. Lec. Remarks. *Thursday November 24<sup>th</sup> 1854*

1	8		C. 9 <sup>th</sup> E	calm		
2	8					
3	8					
4	8					
5	8					
6	8			calm		
7	8					
8	8					
9	8					
10	8					
11	8					
12	8					
1	8					
2	8					
3	8					
4	8					
5	8					
6	8					
7	8					
8	8					
9	8					
10	8					
11	8					
12	8					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
8 8 6	165	8	63 4		38 5	2	5 13	7 41	7 24

H. K. H.K. Courses Winds. Lec. Remarks. *Friday November 25<sup>th</sup>*

1	8		C. 9 <sup>th</sup> E	calm		
2	8					
3	8					
4	8					
5	8					
6	8					
7	8					
8	8					
9	8					
10	8					
11	8					
12	8					
1	8					
2	8					
3	8					
4	8					
5	8					
6	8					
7	8					
8	8					
9	8					
10	8					
11	8					
12	8					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
8 8 6	165	8	63 4		38 5	2	5 13	7 41	7 24

*Navigation from Valens towards India*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	S		SE	SE		
2	S					
3	S					
4	S					
5	S					
6	S	/				
7	S	/				
8	S					
9	S					
10	S	/				
11	S	/				
12	S	/				
1	S	/				
2	S	/				
3	S	/				
4	S	/				
5	S	/				
6	S	/				
7	S	/				
8	S	/				
9	S	/				
10	S	/				
11	S	/				
12	S	/				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	10	23-2	4-1		28-4	1/4	1-58	1-32	1-27

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	S		SE	SE		
2	S					
3	S					
4	S					
5	S					
6	S					
7	S					
8	S					
9	S					
10	S					
11	S					
12	S					
1	S					
2	S					
3	S					
4	S					
5	S					
6	S					
7	S					
8	S					
9	S					
10	S					
11	S					
12	S					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	10	23-2	4-1		28-4	1/4	1-58	1-32	1-27



steering from *10000* towards *10000*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1			<i>SC</i>	<i>SSW</i>		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

*4.0*  
*10.0*  
*10.0*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
<i>66 S</i>	<i>29</i>	<i>6</i>	<i>5</i>		<i>11 1'</i>	<i>5</i>	<i>9'</i>		<i>16 4</i>

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1			<i>SCS</i>	<i>SSW</i>		
2						
3			<i>SCS</i>	<i>SSW</i>		
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
<i>62 S</i>	<i>29</i>	<i>6</i>	<i>5</i>		<i>11 1'</i>	<i>5</i>	<i>9'</i>		<i>16 4</i>

<i>Brig. John from Tulare towards Mexico</i>										
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.				
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
Course.		Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100		100				100	100	100	100	100
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.				
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
Course.		Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100		100				100	100	100	100	100

Wine, return from *Salmon* towards *Salmon*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	1	1	1000			
2	1	1				
3	1	1				
4	1	1				
5	1	1				
6	1	1				
7	1	1				
8	1	1				
9	1	1				
10	1	1				
11	1	1				
12	1	1				
1	1	1				
2	1	1				
3	1	1				
4	1	1				
5	1	1				
6	1	1				
7	1	1				
8	1	1				
9	1	1				
10	1	1				
11	1	1				
12	1	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
1000	100	00 00	1000		10 10	20	10 10	20 10	27 00

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	1	1	1000			
2	1	1				
3	1	1				
4	1	1				
5	1	1				
6	1	1				
7	1	1				
8	1	1				
9	1	1				
10	1	1				
11	1	1				
12	1	1				
1	1	1				
2	1	1				
3	1	1				
4	1	1				
5	1	1				
6	1	1				
7	1	1				
8	1	1				
9	1	1				
10	1	1				
11	1	1				
12	1	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
1000	100	00 00	1000		10 10	20	10 10	20 10	20 20

		from		towards			
H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
	986	10	95		98	2 1/2	7 1/2	204	91-33

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
	210	10	200		202	2 1/2	4 1/2	69-24	33-33



from towards

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
East	700		700	27 57		2 1/2	1 1/2	14 1/2	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
SE	162	1 1/2	1 1/2	40 05	2 1/2	3 1/2	18 28	160 1/2	

*Spring, departure from (Porto) towards India*

11.	K.	n. R.	Courses.	Winds.	Lee.	Remarks.
1	1		250	1/4 N		
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	1					
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1		100	1/4 N		
12	1					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
250	20	20	150				20	20	20

*Spring, departure from (Porto) towards India*

11.	K.	n. R.	Courses.	Winds.	Lee.	Remarks.
1	1		250	1/4 N		
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	1					
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
250	20	20	150				20	20	20

Departure from *London* towards *Spain*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	1		1678	W. 4		
2	10					
3	10		1678			
4	10					
5	10					
6	10					
7	10					
8	10					
9	10					
10	10					
11	10					
12	10					
1	10					
2	10					
3	10					
4	10					
5	10					
6	10					
7	10					
8	10					
9	10					
10	10					
11	10					
12	10					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
1678	228	12	227		40° 15'	2°	45° 15'	17° 15'	17° 22'

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	1		1678	W. 4		
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	1					
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
1678	204	21	202		37° 55'	2°	47° 25'	16° 22'	16° 37'

Spring, before from Calcutta towards India

H.	K.	H.R.	Courses.	Winds.	Lee.	Remarks.
Monday December 12 <sup>th</sup> 1877						
1	2		ESE	W		Commenced with brisk breeze & pleasant weather but soon the gale set in. Rose top mast & lower rigging.
2	3					
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					
11	12					
12	1					
1	2					
2	3					
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					
11	12					
12	1					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
North	25	1	22.9		39:40	2 1/2	3:1.6	66:08	67:08

No.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
11.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	4		1830	4.5		Commenced with strong breeze & cloudy with some rain.
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Year.	Per.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1876	189	52	186	39-21	42-35	3-14	1-29	70-34	70-4



*From Salem towards India*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	5	1	SEB	Wile		
2	5	1				First Part Heavy Breeze - Cloud
3	5	1				at 2 P.M. set to the S.W. with sails
4	5	1				
5	5	1				
6	7	1				at 9 P.M. set the fore & main top sails
7	7	1				at 10 P.M. set the fore & main top sails
8	7	1				
9	7	1				
10	7	1		Wile		
11	7	1				at 11 P.M. set the fore & main top sails
12	7	1				at 12 P.M. set the fore & main top sails
1	7	1				
2	7	1				
3	7	1				
4	7	1				
5	7	1				
6	7	1				at 1 P.M. set the fore & main top sails
7	7	1				the fore & main top sails to the South & Eastward
8	7	1				
9	7	1	SEB	SEB		
10	7	1				Termination of Present voyage - 20.2
11	7	1				light wind
12	7	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
A 76 E	150	76 4	140 5		35 48	2 1/2	3 7	75 46	72 5

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		SEB	East		
2	2					Commence with light winds
3	3		SEB	Variable		& Pleasant weather
4	3					
5	3		SEB			at 6 P.M. took ship to the East
6	3					
7	3	1	SEB			
8	6	1				at 8 P.M. took ship to the East
9	6	1				in the fore & aft with sails
10	6	1				
11	6	1				at 10 took in the fore & aft with sails
12	6	1				SEB
1	6	1	SEB			Minister Pass: Heavy Breeze - 20.2
2	6	1	SEB			weather
3	6	1				at 6 P.M. took in the fore & aft
4	6	1				
5	6	1				
6	6	1				
7	5	1	SEB			First Part Heavy Breeze - 20.2
8	5	1				Clouds
9	5	1				
10	6	1	SEB	SEB		
11	6	1				
12	6	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
A 51 E	115	15 1	100 0		30 8	2	2 27	76 13	74 1 5

My Sighting from *Palmer* towards *India*.

H. K. H. R. Courses. Winds. Lec. Remarks. *Friday December 16<sup>th</sup> 1831*

1	1		W S E	Light		
2	1					
3	1		W S E			
4	1					
5	1					
6	1					
7	1		W S E			
8	1					
9	1		W S E			
10	1					
11	1					
12	1					
1	1		W S E			
2	1					
3	1					
4	1		W S E			
5	1		W S E			
6	1					
7	1					
8	1		W S E			
9	1		W S E	North		
10	1					
11	1					
12	1					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
W S E	177	15-1	176-5	38-1-1		2	3-57	80-10	79-29

H. K. H. R. Courses. Winds. Lec. Remarks. *Saturday December 17<sup>th</sup>*

1	1		W S E	North		
2	1					
3	1					
4	1		W S E			
5	1					
6	1					
7	1					
8	1					
9	2					
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
W S E	177	15-1	176-5	38-1-1		2	3-57	80-10	79-29

Trig. station from Stone towards Yndia

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	✓	✓	E. S. E.	100		
2	✓	✓				
3	✓	✓				
4	✓	✓				Commenced with fine weather.
5	✓	✓				Light breeze.
6	✓	✓				
7	✓	✓				
8	✓	✓	E. S. E.			
9	✓	✓				
10	✓	✓				
11	✓	✓				
12	✓	✓				
1	✓	✓				
2	✓	✓				
3	✓	✓				
4	✓	✓	E. S. E.	100		
5	✓	✓				
6	✓	✓				
7	✓	✓	E. S. E.			
8	✓	✓				
9	✓	✓				
10	✓	✓				
11	✓	✓				
12	✓	✓				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
E. S. E.	89	12	106	05	05	1/4	2-38	54-37	12-3

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	✓	✓	E. S. E.	100		
2	✓	✓				
3	✓	✓				
4	✓	✓	E. S. E.			
5	✓	✓				
6	✓	✓				
7	✓	✓				
8	✓	✓				
9	✓	✓				
10	✓	✓	E. S. E.			
11	✓	✓				
12	✓	✓				
1	✓	✓				
2	✓	✓				
3	✓	✓				
4	✓	✓				
5	✓	✓				
6	✓	✓				
7	✓	✓				
8	✓	✓				
9	✓	✓	E. S. E.			
10	✓	✓				
11	✓	✓				
12	✓	✓				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
E. S. E.	179	30	322	58	58	1/4	2-31	58-00	56-29

from *Thames* towards *India*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	1			SE		Commences with fresh breeze & steady weather
2	1					
3	1					at 1 P.M. lat. 14° 10' N. long. 87° 30' W.
4	1					lower the sails
5	1					
6	1					get the ship's bell down and set the vessel
7	1					
8	1					
9	1					
10	1					at 1 P.M. in the lower the sail the wheel being down
11	1					
12	1					
1	2					At 1 P.M. the ship's bell down and set the vessel
2	2					blowing the vessel some at the rate
3	2					of eight knots with a candle
4	2					burning on the quarter deck
5	2					
6	2					
7	2					
8	2					
9	2					At 1 P.M. the ship's bell down and set the vessel
10	2					blowing the vessel some at the rate
11	2					of eight knots with a candle
12	2					burning on the quarter deck

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
1 2 3	150	150	80 1		17 13	174	1536	89 39	87 50

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	2			SE		Commences with fresh breeze and pleasant weather
2	2					
3	2					At 1 P.M. the ship's bell down and set the vessel
4	2					blowing the vessel some at the rate
5	2					of eight knots with a candle
6	2					burning on the quarter deck
7	2					
8	2					
9	2					
10	2					At 1 P.M. the ship's bell down and set the vessel
11	2					blowing the vessel some at the rate
12	2					of eight knots with a candle
1	3					burning on the quarter deck
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
1 2 3	150	150	80 1		17 13	174	1536	89 39	87 50



Pyric. capture from *Parion* towards *India*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6	1	W.B.R.	W		Thursday December 22 <sup>d</sup> 1881
2	6	1				
3	6	1	W.B.R.	W		Received - 2 boxes and 2 packages
4	6	1				from the
5	6	1				at 2 with the four last boxes
6	6	1				and 2
7	6	1				
8	6	1				
9	6	1				
10	6	1				
11	6	1				Wine & Lard - as above
12	6	1				
1	6	1				
2	6	1				
3	6	1				
4	5	1				
5	5	1				
6	5	1				
7	5	1				
8	4	1				
9	4	1				
10	4	1				
11	4	1				
12	4	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
N 14 E	13.7	1.2	2.3		29-29	1	3.0	00 30	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2	1	1st 20	4th 24		December 23 <sup>rd</sup>
2	3	1				Spent time with President
3	3					Education
4	3					
5	3					
6	2			West		at 5 P.M. set the sails at 6
7	2					stood sails
8	2					
9	2	1				at 10 P.M. 1/2 to 1/4 N. by E
10	2	1				over the Headlands
11	2	1		W		
12	2	1				
1	2	1		W		
2	2	1				
3	2	1				
4	2	1				
5	2	1		SSE		Went to 1/2 N. by E
6	2	1				Went to 1/2 N. by E
7	2	1				Went to 1/2 N. by E
8	2	1				Went to 1/2 N. by E
9	2	1				Went to 1/2 N. by E
10	2	1				Went to 1/2 N. by E
11	2	1				Went to 1/2 N. by E
12	2	1				Went to 1/2 N. by E

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
N. 12 E	62	61	19-9		28=28	1	7	70-19	

*Big Neptune from Salem towards India*

H.	K.	H.R.	Courses.	Winds.	Lee.	Remarks.
1	2		1930	SE		Saturday December 24 <sup>th</sup> 1871
2	5					Commenced with light easterly
3	5					wind & rain
4	5					
5	5	/				from 5 to 5.30 drifting with
6	4	/				current of rain
7	5	/	Port	SE		
8	5	/				
9	4		Adverse			at 7 P.M. in the hands
10	4					
11	4					
12	4					at 10 P.M. light breeze and
1	2	/	Adverse			drifting clouds
2	2	/				
3	2	/				
4	3	/				
5	3	/				
6	2	/				
7	1	/				at 10 P.M. light breeze and
8	1	/				drifting
9	1	/	Adverse	SE		
10	2	/				
11	2	/				
12	2	/				

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D.R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1930	27	51-6	51-6		27-27	1	59	89-17	89-00

H.	K.	H.R.	Courses.	Winds.	Lee.	Remarks.
1	4		Adverse	SE		Sunday December 25 <sup>th</sup>
2	4					Commenced to get fresh breeze and
3	4					drifting clouds
4	4					
5	5					
6	5					
7	5	/				at 1 P.M. the wind to the south &
8	2	/	Adverse	SE		drifting
9	2	/				
10	2	/				
11	2	/				
12	2	/				
1	2	/				at 10 P.M. light breeze and
2	2	/	Adverse	SE		drifting
3	2	/				
4	2	/				
5	2	/				at 10 P.M. the fresh breeze and
6	2	/				drifting
7	2	/				
8	2	/				
9	2	/				
10	2	/				
11	2	/				
12	2	/				

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D.R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1930	27	51-6	51-6		27-27	1	59	89-17	89-00

Navigation from *Salem* towards *India*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
Monday December 26 <sup>th</sup> 1791						
1		1	NNE	West		
2		1				Light breeze from the East
3		1		SW		Light breeze
4		1				
5		1				at 10 P.M. set in the S.W. wind
6		1				on the Starboard side
7	1			South		
8	2					at 1 P.M. in the windward the rain
9	3	1	NNE			
10	3	1				at 1 P.M. in the windward the rain
11	4			SW		
12	3					at 11 in the S.W. wind the rain
1	5	1	North			at 11 in the S.W. wind the rain
2	5	1				at 11 in the S.W. wind the rain
3	4	1	WSW	SW		
4	3					at 11 in the S.W. wind the rain
5	4					
6	5					
7	3		NNE			
8	4					
9	4					
10	4					
11	4		NNE	East		
12	4					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
NNE	66	15	27		25° 12'	12	33	87° 53'	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
Tuesday December 27 <sup>th</sup>						
1	5		NNE	East		
2	5					Commences with gentle breeze
3	5					pleasant weather
4	5					
5	5		NNE			at 1 P.M. took the S.W. wind the rain
6	6					
7	6		North			at 4 P.M. the rain
8	6					
9	6					at 11 in the S.W. wind the rain
10	6					
11	6					
12	6					
1	6		NNE			at 4 P.M. the rain
2	5					at 4 P.M. the rain
3	5			SW		at 4 P.M. the rain
4	5					at 4 P.M. the rain
5	6					at 4 P.M. the rain
6	6					at 4 P.M. the rain
7	6					at 4 P.M. the rain
8	6					at 4 P.M. the rain
9	6					at 4 P.M. the rain
10	6					at 4 P.M. the rain
11	6					at 4 P.M. the rain
12	8					at 4 P.M. the rain

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
NNE	140	145	0		25° 41'	12	33	87° 53'	

Line from *Salem* towards *India*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	y		165°	SE 1/2 E		
2	y			x		
3	y					Commenced with S. by E. trades
4	y					and good weather
5	y		North	W. by S		Employed heaving & lowering
6	y					standing sail
7	y					
8	y					
9	y					at 10 P.M. went down and equally
10	y					by turns took in the top gall
11	y					studding sail
12	y					
1	y		180°			W. by S. Part Cloudy
2	y					
3	y					
4	y					
5	y		195°			
6	y					at 1/2 Let the fore & main mast studding
7	y					sail
8	y					at 10 took in the top mast
9	y					studding sail
10	y					
11	y					Commenced Reasant
12	y					

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
165°	178	171	0		70-56	N	00-00	89-30	88-20

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	6		180°	SE 1/2 E		
2	6					
3	6					
4	6					Commenced with gentle breeze
5	6					and pleasant weather
6	6		180°	W. by S		
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6		180°			W. by S. & Light fine breeze &
2	6					lighting clouds
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
180°	271	271			89-00	N	00-00	89-00	88-30



Distance from *Quinn* towards *Horrid*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6		SE	East		Friday, Dec. 30 <sup>th</sup> , 1881
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	6		SE			
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
N 18 W	146	34	45		16 = 0	2	17	88 14	

H.	K.	H.K.	Courses.	Winds.	Lcc.	Remarks.
						<i>Wednesday December 31, 47</i>
1	6		N/E	East		
2	6			+		
3	6		N/E			Birds' Notes & Puffing Jackals
4	6					
5	6					at 10 o'clock with some rain
6	5					took in the Royals & Shing, etc
7	5		N/E			at 4 o'clock birds were flying
8	5					Apparitions
9	5		N/E			at 9 took in the top of the hills
10	6					
11	5		N/E			
12	5					Middle Pass has been washed down
1	5		N/E			some ruins the narrow valley
2	5					from East to North
3	5		N/E			
4	5					at 5 took the top of the hills
5	4		N/E			
6	4					
7	4		N/E			at 9 took this to end of the
8	3					
9	2		N/E			
10	2					terminates with light puffing
11	2		E/S			weather
12	0					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Vari.	Diff. Long.	Long. by	Long. by Obs.
N 111 W	100	98	17		14° 41'	1/2	18	82° 01'	88° 2'

*Voyage from Palermo towards India*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		North	SE		Commenced with Light Bumping wind & Pleasant weather took ship to the Northward
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	5		SE			Middle & better Part gentle breeze and fine weather
12	5					
1	5					
2	5					
3	5		North			
4	5					
5	5					
6	5					
7	5					
8	5					
9	6		NE			Sailed for this several days past we had short of our distance by one hour for steamer I therefore expect we have a strong southerly current against us we have made about a North course in four & twenty hours
10	6					
11	6					
12	6					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
	112	3 <sup>v</sup>			35 <sup>14</sup>	14		85 <sup>58</sup>	28 <sup>20</sup>

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	5		North	SE		Commenced with fine Breeze & Pleasant weather
2	5					
3	5		North			
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					Middle East Breeze we were in the main 10 <sup>th</sup> part of the day
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					Commenced with fine Breeze Pleasant weather
10	5					
11	5					
12	5					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
	112	3 <sup>v</sup>			35 <sup>14</sup>	14		85 <sup>58</sup>	28 <sup>20</sup>

from *11.11.11* towards *11.11.11*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
121 E	185	164	84		752	4	94	900	8041

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
----	----	------	----------	--------	------	----------

1	8		North	SW		
2	8					
3	8	1	SW			
4	8	1				
5	8	1				
6	8	1				
7	8	1				
8	8	1				
9	6		North			
10	5					
11	5					
12	2		NW	NW		
1	3					
2	3					
3	3					
4	3		SE			
5	6		NE	NW		
6	6					
7	4					
8	3					
9	3					
10	2					
11	2					
12	1					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
121 E	88	81	162		631	4	16	9026	9003

Drig. Station from *Union* towards *Andria*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	2		N. E.	drizzle		light breeze & calm with a
2	1		drizzle			strong swell from the N. W.
3	1					at 10.00 with squally appearances
4	1					& some rain
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	2		drizzle	drizzle		at 1.00 the fog & drizzle
2	1					from the N. W. with rain
3	1					
4	1					
5	1					terminates with steady breeze
6	1					and clearing
7	1					
8	1					at 4.00 the fog is a good deal
9	1					diminished
10	1					and the heavy current
11	1					
12	1					

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N. E.	12	30	41		5 53	14	1	91 42	90 42

H. K. H. K. Courses. Winds. Lee. Remarks. *Monday January 6th 1832*

1	1		N. E.	drizzle		commenced drizzle & breeze and cloudy
2	1					
3	1					at 2.00 the squally look in the fog
4	1					giving little for the most
5	1					at 3.00
6	1					
7	1					
8	1					at 4.00 the fog is a good deal
9	1					diminished
10	1					at 5.00 the wind lifted to
11	1					the N. W.
12	1					
1	2		drizzle	drizzle		at 1.00 the wind lifted to
2	1					the N. W.
3	1					
4	1					at 2.00 still the wind lifted
5	1					
6	1					
7	1					terminates with drizzle & cloudy
8	1					
9	1					
10	1					
11	1					
12	1					

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N. E.	12	30	41		7 10	14	98	92 45	92 45



Direction from *Salem* towards *India*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	3		SE	W. SW		Commenced with light easterly breeze and clear
2	3					
3	5					
4	2					Shifted the courses to the sail
5	0					that the old ones
6	4		SE			at 3 Squares back in the Standard
7	4		SE			
8	4		SE			
9	2		SE			
10	1		SE			
11	1		SE			Unsettled East fresh Breeze and
12	1		SE			a plenty of Rain
1	6		SE			
2	6		SE			
3	1		SE			
4	1		SE			at 6 Bore Breeze but all
5	6		SE			the Standard
6	1		SE			
7	1		SE			
8	1		SE			Commenced with steady breeze
9	1		SE			and cloudy
10	6		SE			
11	6		SE			
12	6		SE			

90 Days out

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
SE	119	90	78		1539	1/2	18	907	3946

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6		SE	W. SW		Commenced with fine weather
2	6		SE			and cloudy weather
3	6		SE			got the Standard on the Standard
4	6		SE			at 28. 1/2 back in the Standard
5	1		SE			
6	1		SE			
7	6		SE			
8	6		SE			
9	6		SE			
10	6		SE			
11	6		SE			
12	6		SE			
1	5		SE			Unsettled East moderate and
2	5		SE			cloudy with some rain
3	4		SE			
4	4		SE			
5	3		SE			
6	3		SE			
7	6		SE			
8	5		SE			
9	5		SE			
10	5		SE			
11	5		SE			
12	5		SE			

100 Days out

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
SE	136	69	116		0 30		150	9608	9700

Sailing from <i>Palem</i> towards <i>India</i>														
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks. <i>Monday January 9<sup>th</sup> 1852</i>								
1	6		Ebb	West.		First East - five courses and								
2	6					leaving station								
3	6					at 10 P.M. took in the Handies								
4	6					Squally with Rain								
5	6					at 7 P.M. in the Royal's ship with								
6	6					8 men laid out 5 boats & ship								
7	6					to the westward & took in 20								
8	6					gallons								
9	2													
10	2													
11	2					Middle East - undisturbed courses								
12	2					and squally with rain								
1	3					at 10 P.M. took in the Eastward								
2	3					at 10 P.M. took in the Eastward								
3	3					Carried away the main & fore								
4	3					sheets and split the main sail								
5	3					St. Barrington one of the Seamen								
6	3					Refused to go. Distant a Poor								
7	3					worthless being								
8	3					East of West. Stormy courses and								
9	3					very squally with rain								
10	3					at 10 P.M. took in the Eastward								
11	3					Bearing East - Pale Minton								
12	3													
Course.						Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
140						72	5-3	267		0°49		1=11	91°28	98°15

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks. <i>Tuesday January 10<sup>th</sup></i>								
1	6		Ebb	West.		First East - five courses and								
2	6					leaving station								
3	6					at 10 P.M. took in the Handies								
4	6					Squally with Rain								
5	6					at 7 P.M. in the Royal's ship with								
6	6					8 men laid out 5 boats & ship								
7	6					to the westward & took in 20								
8	6					gallons								
9	2													
10	2													
11	2					Middle East - undisturbed courses								
12	2					and squally with rain								
1	3					at 10 P.M. took in the Eastward								
2	3					at 10 P.M. took in the Eastward								
3	3					Carried away the main & fore								
4	3					sheets and split the main sail								
5	3					St. Barrington one of the Seamen								
6	3					Refused to go. Distant a Poor								
7	3					worthless being								
8	3					East of West. Stormy courses and								
9	3					very squally with rain								
10	3					at 10 P.M. took in the Eastward								
11	3					Bearing East - Pale Minton								
12	3													
Course.						Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
140						05	7-7	64		45		14	98°24	

Orig. Log from *Tulom* towards *Tindin*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2	1	100° E	W. by N	-	Commenced with fresh breeze and light air at 10 AM. Weather clear and calm.
2	2	1				
3	2	1				
4	2	1				
5	2	1	100° E			at 1 PM bore light to the S. E.
6	2	1				at 2 PM the land bore S. of S. E. distant about 10 miles.
7	2	1	100° E			at 3 PM the land bore S. of S. E. distant about 10 miles.
8	2	1	100° E			at 4 PM the land bore S. of S. E. distant about 10 miles.
9	2	1	100° E			at 5 PM the land bore S. of S. E. distant about 10 miles.
10	2	1	100° E			at 6 PM the land bore S. of S. E. distant about 10 miles.
11	2	1	100° E			at 7 PM the land bore S. of S. E. distant about 10 miles.
12	2	1	100° E			at 8 PM the land bore S. of S. E. distant about 10 miles.

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
							2 = 0°		

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2	1	100° E	W. by N	-	Commenced with light breeze and calm in consequence of hot weather.
2	2	1				
3	2	1				
4	2	1	100° E			at 1 PM bore light to the S. E.
5	2	1				
6	2	1	100° E			at 2 PM the land bore S. of S. E. distant about 10 miles.
7	2	1				
8	2	1	100° E			at 3 PM the land bore S. of S. E. distant about 10 miles.
9	2	1				
10	2	1	100° E			at 4 PM the land bore S. of S. E. distant about 10 miles.
11	2	1				
12	2	1	100° E			at 5 PM the land bore S. of S. E. distant about 10 miles.

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
							2 = 28		

For further the voyage safe & clear from all dangers. The weather was good, the wind moderate and pleasant.

Expenses from *Siam* towards *Siam*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	2		to NW	SE		commenced with light wind & improving weather. At 11 AM. we made land. Saw the coast of Sumatra fr. Eastward.
2	2					
3	/	/				
4	/	/				
5	/	/				
6	/	/				
7	/	/				at 6 PM. we shifted cap on our launch & ran bore NW 1/2 distance about 7 or 8 miles
8	/	/				
9	/	/				
10	/	/				
11	/	/				
12	1	1				at 10 AM. the 1st point of Mount Dora bore NW 18 miles
1	2	/				
2	/	/				
3	/	/				
4	/	/				
5	/	/				
6	/	/				
7	/	/				
8	/	/				
9	/	/				
10	/	/				
11	/	/				
12	1	1				at 10 AM. the 1st point of Mount Dora bore NW 18 miles

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
					1 28				

No.	K.	H. K.	Courses.	Winds.	Lec.	Remarks.
1						at 11:00 am. 11th Nov. 1895
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

[illegible]



Brighton from Salem towards India

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1			Star	Star		Common sea with light breeze
2			Star	Star		Star
3			Star	Star		Star
4			Star	Star		Star
5	4					Star
6	4					Star
7	5					Star
8	5					Star
9	5					Star
10	2		Star			Star
11	2		Star			Star
12	2		Star			Star
1	1		Star			Star
2	2		Star			Star
3	2		Star			Star
4	2		Star			Star
5						Star
6						Star
7						Star
8						Star
9						Star
10						Star
11						Star
12						Star

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						Through the light breeze towards
2						Heads of the waves towards
3						at 11th of the waves towards
4						at 11th of the waves towards
5						at 11th of the waves towards
6						at 11th of the waves towards
7						at 11th of the waves towards
8						at 11th of the waves towards
9						at 11th of the waves towards
10						at 11th of the waves towards
11						at 11th of the waves towards
12						at 11th of the waves towards
1						at 11th of the waves towards
2						at 11th of the waves towards
3						at 11th of the waves towards
4						at 11th of the waves towards
5						at 11th of the waves towards
6						at 11th of the waves towards
7						at 11th of the waves towards
8						at 11th of the waves towards
9						at 11th of the waves towards
10						at 11th of the waves towards
11						at 11th of the waves towards
12						at 11th of the waves towards

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

4 miles rising low water level of the light  
 through the light breeze towards  
 at 11th of the waves towards

At a distance from Sachung towards Sutura

[illegible]

From ... towards ...

H. K. H.K. Courses. Winds. Lec. Remarks. ...

1	4	1	SEB	SE		
2	4	1				
3	4	1				
4	4	1				
5	4	1				
6	4	1	SEB	SE		
7	4	1				
8	4	1				
9	4	1				
10	4	1				
11	4	1				
12	4	1	SEB	SE		
1	4	1				
2	4	1				
3	4	1				
4	4	1				
5	4	1				
6	4	1				
7	4	1				
8	4	1				
9	4	1				
10	4	1				
11	4	1				
12	4	1				

Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.

H. K. H.K. Courses. Winds. Lec. Remarks. ...

1	4	1	SEB	SE		
2	4	1				
3	4	1				
4	4	1				
5	4	1				
6	4	1	SEB	SE		
7	4	1				
8	4	1				
9	4	1				
10	4	1				
11	4	1				
12	4	1				
1	4	1				
2	4	1				
3	4	1				
4	4	1				
5	4	1				
6	4	1				
7	4	1				
8	4	1				
9	4	1				
10	4	1				
11	4	1				
12	4	1				

Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in Long. by Ob.

(iii)  $\phi$  from  $\Gamma$  towards  $\Gamma^*$

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	1		15/10	15/10		First 1st. West of Cape...
2	1		15/10	15/10		Second 1st. West of Cape...
3	1		15/10	15/10		Third 1st. West of Cape...
4	1		15/10	15/10		Fourth 1st. West of Cape...
5	1		15/10	15/10		Fifth 1st. West of Cape...
6	1		15/10	15/10		Sixth 1st. West of Cape...
7	1		15/10	15/10		Seventh 1st. West of Cape...
8	1		15/10	15/10		Eighth 1st. West of Cape...
9	1		15/10	15/10		Ninth 1st. West of Cape...
10	1		15/10	15/10		Tenth 1st. West of Cape...
11	1		15/10	15/10		Eleventh 1st. West of Cape...
12	1		15/10	15/10		Twelfth 1st. West of Cape...
1	1		15/10	15/10		Thirteenth 1st. West of Cape...
2	1		15/10	15/10		Fourteenth 1st. West of Cape...
3	1		15/10	15/10		Fifteenth 1st. West of Cape...
4	1		15/10	15/10		Sixteenth 1st. West of Cape...
5	1		15/10	15/10		Seventeenth 1st. West of Cape...
6	1		15/10	15/10		Eighteenth 1st. West of Cape...
7	1		15/10	15/10		Nineteenth 1st. West of Cape...
8	1		15/10	15/10		Twentieth 1st. West of Cape...
9	1		15/10	15/10		Twenty-first 1st. West of Cape...
10	1		15/10	15/10		Twenty-second 1st. West of Cape...
11	1		15/10	15/10		Twenty-third 1st. West of Cape...
12	1		15/10	15/10		Twenty-fourth 1st. West of Cape...

4  
1848

5  
Page 1

II.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						From East with wind's & Calms
2						being a strong & variable current
3						Setting up in towards the Coast Fast
4						of Calms & Calms
5						at 10 AM it bore S.W. 5 or 6 miles
6						from a S.W. Calms to be the
7						Point a S.W. Calms this off shore
8						at 10 AM it bore S.W. 5 or 6 miles
9						from a S.W. Calms to be the
10						Point a S.W. Calms this off shore
11						at 10 AM it bore S.W. 5 or 6 miles
12						from a S.W. Calms to be the
1						Point a S.W. Calms this off shore
2						at 10 AM it bore S.W. 5 or 6 miles
3						from a S.W. Calms to be the
4						Point a S.W. Calms this off shore
5						at 10 AM it bore S.W. 5 or 6 miles
6						from a S.W. Calms to be the
7						Point a S.W. Calms this off shore
8						at 10 AM it bore S.W. 5 or 6 miles
9						from a S.W. Calms to be the
10						Point a S.W. Calms this off shore
11						at 10 AM it bore S.W. 5 or 6 miles
12						from a S.W. Calms to be the



towards

6  
Luz

[illegible]

7.  
Aug.

[illegible]

Septem from Phae towards Estetice

H. K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1					1872
2					Commenced at 7 P.M. Breeze
3					from the North-east & Drift
4					from the N.E. & Drift
5					from the N.E. & Drift
6					from the N.E. & Drift
7					from the N.E. & Drift
8					from the N.E. & Drift
9					from the N.E. & Drift
10					from the N.E. & Drift
11					from the N.E. & Drift
12					from the N.E. & Drift
1					from the N.E. & Drift
2					from the N.E. & Drift
3					from the N.E. & Drift
4					from the N.E. & Drift
5					from the N.E. & Drift
6					from the N.E. & Drift
7					from the N.E. & Drift
8					from the N.E. & Drift
9					from the N.E. & Drift
10					from the N.E. & Drift
11					from the N.E. & Drift
12					from the N.E. & Drift

8  
Aug. 8

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
					6° 11'				

[illegible]

1.  $\frac{1}{2}$  from  $\frac{1}{2}$  towards  $\frac{1}{2}$

H. K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1					Dec. 10. 1871. Wednesday 12th
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

[illegible]

H. R.	H.K.	Courses.	Winds.	Lec.	Remarks.
1					Monday 2 January 1877
2			SE		Commenced with fair breeze
3					and clear weather
4					Left 11 AM. Sailed for the
5			SE		eastward at about 14 knots
6					at 1 PM. The wind increased from
7					the SE & fresh breeze came on
8					and the ship with the British ship anchoring
9					at 1 PM. The wind came to light
10					breeze and the ship on 20 fms. from
11					the shore with a heavy swell
12					through the ice at 1 PM. The British ship
1					& the ship 1891, 1892, 1893, 1894
2					at 1 PM. The wind came from the
3					SE with a fresh breeze
4					and the ship with several vessels
5					at 1 PM. The wind came from the
6					SE with a fresh breeze
7					and the ship with several vessels
8					at 1 PM. The wind came from the
9					SE with a fresh breeze
10					and the ship with several vessels
11					at 1 PM. The wind came from the
12					SE with a fresh breeze

[illegible]

Voyage from <i>Barro</i> towards <i>Botavia</i>											
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks, <i>Friday February 14th 1829</i>					
1			<i>1st Part of my Voyage</i>	<i>SE</i>		<i>First Part of my Voyage from the 1st to the 14th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
2											
3											
4											
5											
6											
7											
8											
9											
10											
11			<i>2nd Part of my Voyage</i>	<i>SE</i>		<i>Second Part of my Voyage from the 15th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
12											
1											
2											
3											
4											
5											
6											
7											
8											
9			<i>3rd Part of my Voyage</i>	<i>SE</i>		<i>Third Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
10											
11											
12											
1											
2											
3											
4											
5											
6											
7											
8			<i>4th Part of my Voyage</i>	<i>SE</i>		<i>Fourth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
9											
10											
11											
12											
1											
2											
3											
4											
5											
6											
7											
8			<i>5th Part of my Voyage</i>	<i>SE</i>		<i>Fifth Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
9											
10											
11											
12											
1											
2											
3											
4											
5											
6											
7											
8			<i>6th Part of my Voyage</i>	<i>SE</i>		<i>Sixth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
9											
10											
11											
12											
1											
2											
3											
4											
5											
6											
7											
8			<i>7th Part of my Voyage</i>	<i>SE</i>		<i>Seventh Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
9											
10											
11											
12											
1											
2											
3											
4											
5											
6											
7											
8			<i>8th Part of my Voyage</i>	<i>SE</i>		<i>Eighth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
9											
10											
11											
12											
1											
2											
3											
4											
5											
6											
7											
8			<i>9th Part of my Voyage</i>	<i>SE</i>		<i>Ninth Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
9											
10											
11											
12											
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3											
4											
5											
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8			<i>10th Part of my Voyage</i>	<i>SE</i>		<i>Tenth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>11th Part of my Voyage</i>	<i>SE</i>		<i>Eleventh Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>12th Part of my Voyage</i>	<i>SE</i>		<i>Twelfth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>13th Part of my Voyage</i>	<i>SE</i>		<i>Thirteenth Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>14th Part of my Voyage</i>	<i>SE</i>		<i>Fourteenth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>15th Part of my Voyage</i>	<i>SE</i>		<i>Fifteenth Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>16th Part of my Voyage</i>	<i>SE</i>		<i>Sixteenth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>17th Part of my Voyage</i>	<i>SE</i>		<i>Seventeenth Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>18th Part of my Voyage</i>	<i>SE</i>		<i>Eighteenth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>19th Part of my Voyage</i>	<i>SE</i>		<i>Nineteenth Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>20th Part of my Voyage</i>	<i>SE</i>		<i>Twentieth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>21st Part of my Voyage</i>	<i>SE</i>		<i>Twenty-first Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>22nd Part of my Voyage</i>	<i>SE</i>		<i>Twenty-second Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>23rd Part of my Voyage</i>	<i>SE</i>		<i>Twenty-third Part of my Voyage from the 29th to the 10th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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8			<i>24th Part of my Voyage</i>	<i>SE</i>		<i>Twenty-fourth Part of my Voyage from the 11th to the 28th</i> <i>at 10 o'clock to the north</i> <i>the wind was in the port and</i> <i>the current to seaward</i> <i>6 or 8 miles</i> <i>Then at 10 o'clock I put</i> <i>the ship to the west</i> <i>the current about 10 miles</i> <i>the wind 3 miles from the</i> <i>land there</i> <i>at 11 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i> <i>at 12 o'clock I put the ship</i> <i>to the west the current</i> <i>about 10 miles from the</i> <i>land there</i>					
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14  
6/10/19

15  
(Days)

[illegible]

H.	K.	H.R.	Courses.	Winds.	Lee.	Remarks.
1						Saturday 18 <sup>th</sup> 1872
2						Left New York for the S. S. &
3						St. Louis - Baltimore
4						At 10 <sup>th</sup> the ship to the harbor about
5						4 miles - the river of the
6						at 10 <sup>th</sup> the ship to the harbor about
7						4 miles - the river of the
8						at 10 <sup>th</sup> the ship to the harbor about
9						4 miles - the river of the
10						at 10 <sup>th</sup> the ship to the harbor about
11						4 miles - the river of the
12						at 10 <sup>th</sup> the ship to the harbor about
1						4 miles - the river of the
2						at 10 <sup>th</sup> the ship to the harbor about
3						4 miles - the river of the
4						at 10 <sup>th</sup> the ship to the harbor about
5						4 miles - the river of the
6						at 10 <sup>th</sup> the ship to the harbor about
7						4 miles - the river of the
8						at 10 <sup>th</sup> the ship to the harbor about
9						4 miles - the river of the
10						at 10 <sup>th</sup> the ship to the harbor about
11						4 miles - the river of the
12						at 10 <sup>th</sup> the ship to the harbor about

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
						<i>From 10. Latitude 41.5</i>

[illegible]

George.	Dist.	Pub. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Verif.	Diff. Long.	Long. in.	Long. by Ob.
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Departure from London towards Batavia

H. K. H.K. Courses. Winds. Lec. Remarks. *Departure from London 20<sup>th</sup> 1892*

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Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

H. K. H.K. Courses. Winds. Lec. Remarks.

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Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.

18  
Days

19  
Days

Trig. septem from Sabara towards Malang.

II.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						Thursday March 2 to 5 1892
2						
3						
4						
5						
6						
7						
8						
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10						
11						
12						
1						Commenced with gentle breeze
2						and fair weather
3						at 4.00. Hoisted Mast & set
4						all the sails & hoisted the Day
5						Sight at 5.00. Reached anchor
6						& proceeded out through the mouth
7						of Bay
8						
9						
10						At Maximilian Bay, Santa Island
11						have lost 14 Miles distance
12						this day. Under way to 14 hours

[illegible][illegible]



H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
						Monday March 16 <sup>th</sup> 1931

[illegible]

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[illegible]

Run, bottom from Rakarua towards Huarua.

[illegible]

11  
C. 11

[illegible]

11.	K.	11. K.	Courses.	Winds.	Loc.	Remarks.
1						Thurs. Aug. 24th
2						Commenced with fresh breeze from
3						the N.W. & driving clouds at 1 P.M.
4						Turning N.W. to the S.W. about
5						5 P.M. & blowing from that direction
6						to 8 P.M. & then
7						to 9 P.M. & then
8						to 10 P.M. & then
9						to 11 P.M. & then
10						to 12 P.M. & then
11						to 1 P.M. & then
12						to 2 P.M. & then
1						to 3 P.M. & then
2						to 4 P.M. & then
3						to 5 P.M. & then
4						to 6 P.M. & then
5						to 7 P.M. & then
6						to 8 P.M. & then
7						to 9 P.M. & then
8						to 10 P.M. & then
9						to 11 P.M. & then
10						to 12 P.M. & then
11						to 1 P.M. & then
12						to 2 P.M. & then

200

1) Section from Exeter towards St Austine

H. K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1					Arrived at 50 <sup>th</sup> 1882
2					
3					commenced with British breezes
4					pleasant at 10 <sup>th</sup> but the breeze
5					at 12 <sup>th</sup> the breeze was 10 & 20 miles
6					the current broke the light house
7					ground off shore
8					
9					at 12 <sup>th</sup> the breeze commenced from the
10					land at 10 <sup>th</sup> the breeze was 10 & 20 miles
11					at 12 <sup>th</sup> the breeze was 10 & 20 miles
12					at 12 <sup>th</sup> the breeze was 10 & 20 miles
1					at 12 <sup>th</sup> the breeze was 10 & 20 miles
2					at 12 <sup>th</sup> the breeze was 10 & 20 miles
3					at 12 <sup>th</sup> the breeze was 10 & 20 miles
4					at 12 <sup>th</sup> the breeze was 10 & 20 miles
5					at 12 <sup>th</sup> the breeze was 10 & 20 miles
6					at 12 <sup>th</sup> the breeze was 10 & 20 miles
7					at 12 <sup>th</sup> the breeze was 10 & 20 miles
8					at 12 <sup>th</sup> the breeze was 10 & 20 miles
9					at 12 <sup>th</sup> the breeze was 10 & 20 miles
10					at 12 <sup>th</sup> the breeze was 10 & 20 miles
11					at 12 <sup>th</sup> the breeze was 10 & 20 miles
12					at 12 <sup>th</sup> the breeze was 10 & 20 miles

[illegible]

H. K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1					Attenbury March 31
2			blew		commenced with fresh breeze
3					& thick weather till 4 pm
4			To		to catch the ground swell from
5					2 1/2 to 3 hrs
6					
7			blew		
8					
9					
10					Middle Point moved out to sea
11					
12					
1					at 10 AM ship up & down
2					
3					
4					
5					
6					
7			blew		the wind is light breeze
8					from west to N.W.
9					
10					
11					
12					

[illegible]

Position from Gutierrez towards Potosi.

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						January - April 15, 1852
2						First part of the day - twenty
3						four moderate waves from
4						the west - wind - increasing - water
5						at 1 o'clock left the fog - at 2 o'clock
6						at 3 o'clock left the fog - at 4 o'clock
7						at 5 o'clock left the fog - at 6 o'clock
8						at 7 o'clock left the fog - at 8 o'clock
9						at 9 o'clock left the fog - at 10 o'clock
10						at 11 o'clock left the fog - at 12 o'clock
11						at 1 o'clock left the fog - at 2 o'clock
12						at 3 o'clock left the fog - at 4 o'clock
1						at 5 o'clock left the fog - at 6 o'clock
2						at 7 o'clock left the fog - at 8 o'clock
3						at 9 o'clock left the fog - at 10 o'clock
4						at 11 o'clock left the fog - at 12 o'clock
5						at 1 o'clock left the fog - at 2 o'clock
6						at 3 o'clock left the fog - at 4 o'clock
7						at 5 o'clock left the fog - at 6 o'clock
8						at 7 o'clock left the fog - at 8 o'clock
9						at 9 o'clock left the fog - at 10 o'clock
10						at 11 o'clock left the fog - at 12 o'clock
11						at 1 o'clock left the fog - at 2 o'clock
12						at 3 o'clock left the fog - at 4 o'clock

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
					170 1/2				

No. 10

II.	K.	II. K.	Courses.	Winds.	Lee.	Remarks.
						January 17 <sup>th</sup> 1866

[illegible]

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117

Time

Trays

Page 1

1000

Time



Origin from Victoria towards S. Adam -

H. K. H.K. Courses. Winds. Lee. Remarks. Thursday April 2<sup>nd</sup> 1882

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Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Obs. Varia. Diff. Long. Long. in Long. by Obs.

522

H. K. H.K. Courses. Winds. Lee. Remarks. Friday April 4<sup>th</sup>

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Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Obs. Varia. Diff. Long. Long. in Long. by Obs.

522

Big. lepton from Batavia towards Pagan

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks. Thursday April. $\frac{1}{11}$
1						Commences with strong breeze
2						Exceedingly with the wind by rain
3						at 10 AM boat in the basin to be
4						with sail & anchor up to river
5						and took in the sail
6						at 1 PM leave with to the W. &
7						the coast in light 30 or 40 miles
8						at 4 PM leave with to the W. &
9						at 6 PM leave with to the W. &
10						at 8 PM leave with to the W. &
11						at 10 PM leave with to the W. &
12						at 12 PM leave with to the W. &
1						at 2 PM leave with to the W. &
2						at 4 PM leave with to the W. &
3						at 6 PM leave with to the W. &
4						at 8 PM leave with to the W. &
5						at 10 PM leave with to the W. &
6						at 12 PM leave with to the W. &
7						at 2 PM leave with to the W. &
8						at 4 PM leave with to the W. &
9						at 6 PM leave with to the W. &
10						at 8 PM leave with to the W. &
11						at 10 PM leave with to the W. &
12						at 12 PM leave with to the W. &

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
					423				

12  
Days

13  
Days

H.	K.	H. K.	Courses.	Winds.	Lec.	Remarks.
1						Friday, April 10 <sup>th</sup>
2						
3						10 miles from shore, 10 miles
4						to station - 10 miles
5						10 miles from station - 10 miles
6						10 miles from station - 10 miles
7						10 miles from station - 10 miles
8						10 miles from station - 10 miles
9						10 miles from station - 10 miles
10						10 miles from station - 10 miles
11						10 miles from station - 10 miles
12						10 miles from station - 10 miles
1						10 miles from station - 10 miles
2						10 miles from station - 10 miles
3						10 miles from station - 10 miles
4						10 miles from station - 10 miles
5						10 miles from station - 10 miles
6						10 miles from station - 10 miles
7						10 miles from station - 10 miles
8						10 miles from station - 10 miles
9						10 miles from station - 10 miles
10						10 miles from station - 10 miles
11						10 miles from station - 10 miles
12						10 miles from station - 10 miles

177 177 from Victoria towards Sydney

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						Commenced at 4 from Victoria
2						and pleasant weather
3						
4						at 10 miles from Victoria
5						
6						at 10 miles from Victoria
7						at 10 miles from Victoria
8						at 10 miles from Victoria
9						at 10 miles from Victoria
10						at 10 miles from Victoria
11						at 10 miles from Victoria
12						at 10 miles from Victoria
1						at 10 miles from Victoria
2						at 10 miles from Victoria
3						at 10 miles from Victoria
4						at 10 miles from Victoria
5						at 10 miles from Victoria
6						at 10 miles from Victoria
7						at 10 miles from Victoria
8						at 10 miles from Victoria
9						at 10 miles from Victoria
10						at 10 miles from Victoria
11						at 10 miles from Victoria
12						at 10 miles from Victoria

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					10.068				

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						Commenced at 4 from Victoria
2						and pleasant weather
3						at 10 miles from Victoria
4						at 10 miles from Victoria
5						at 10 miles from Victoria
6						at 10 miles from Victoria
7						at 10 miles from Victoria
8						at 10 miles from Victoria
9						at 10 miles from Victoria
10						at 10 miles from Victoria
11						at 10 miles from Victoria
12						at 10 miles from Victoria
1						at 10 miles from Victoria
2						at 10 miles from Victoria
3						at 10 miles from Victoria
4						at 10 miles from Victoria
5						at 10 miles from Victoria
6						at 10 miles from Victoria
7						at 10 miles from Victoria
8						at 10 miles from Victoria
9						at 10 miles from Victoria
10						at 10 miles from Victoria
11						at 10 miles from Victoria
12						at 10 miles from Victoria

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					5.28				

*Vij. Journey from Satara towards Poona*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2						First Point of the road, and twenty
3						leagues, with a more pleasant
4						country
5						at 6 P.M. we have come to the head of
6						the river of the 12 miles distance
7						from the 1st Point of the road
8						at 10 miles, we have come to the head of
9						the river of the 12 miles distance
10						from the 1st Point of the road
11						at 10 miles, we have come to the head of
12						the river of the 12 miles distance
1						at 10 miles, we have come to the head of
2						the river of the 12 miles distance
3						from the 1st Point of the road
4						at 10 miles, we have come to the head of
5						the river of the 12 miles distance
6						from the 1st Point of the road
7						at 10 miles, we have come to the head of
8						the river of the 12 miles distance
9						from the 1st Point of the road
10						at 10 miles, we have come to the head of
11						the river of the 12 miles distance
12						from the 1st Point of the road

17  
Days

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.

17 33

*Journey from Satara towards Poona April 10th*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2						First Point of the road, and pleasant
3						country - at 6 P.M. we have come to the
4						head of the river of the 12 miles distance
5						from the 1st Point of the road
6						at 10 miles, we have come to the head of
7						the river of the 12 miles distance
8						from the 1st Point of the road
9						at 10 miles, we have come to the head of
10						the river of the 12 miles distance
11						from the 1st Point of the road
12						at 10 miles, we have come to the head of
1						the river of the 12 miles distance
2						from the 1st Point of the road
3						at 10 miles, we have come to the head of
4						the river of the 12 miles distance
5						from the 1st Point of the road
6						at 10 miles, we have come to the head of
7						the river of the 12 miles distance
8						from the 1st Point of the road
9						at 10 miles, we have come to the head of
10						the river of the 12 miles distance
11						from the 1st Point of the road
12						at 10 miles, we have come to the head of

18  
Days

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.

18 33



Mid. Afternoon from Botany towards Baring

H.	K.	H.K.	Courses.	Winds.	Loc.	Remarks.
1						Wednesday April 2nd 1882
2						
3				W. N. E.		Commenced light breeze freshened
4						and squalls took in the forenoon
5						settled fair. At 10 AM ship to
6				E.		the barometer and left the bay for open
7						sea. Downy settled at 11 AM pleasant
8						at 1.30. With a fresh gale breeze
9						
10				W.		at twelve ship to the westward
11						barrier among the Hawaiian Islands.
12						At 1 PM changed their position
1						slightly. Ship lost sight of barrier from
2						the shore.
3						
4						at 4.10 AM ship left sails
5						
6						at 8 AM ship to the westward
7						Engano bore along the coast.
8						At 10 AM barometer bore some squalls to 11 AM
9						
10						at ten PM the barometer bore some squalls
11						at 7 AM barometer bore some squalls to 11 AM
12						at 11 AM barometer bore some squalls to 11 AM

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
					$N = N$				

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						commences with brisk breeze.
2						fine weather
3						at 1 o'clock ship to the Southward
4						at 3 o'clock
5						at 5 o'clock
6						at 7 o'clock
7						at 9 o'clock
8						at 11 o'clock
9						at 1 o'clock
10						at 3 o'clock
11						at 5 o'clock
12						at 7 o'clock
1						at 9 o'clock
2						at 11 o'clock
3						at 1 o'clock
4						at 3 o'clock
5						at 5 o'clock
6						at 7 o'clock
7						at 9 o'clock
8						at 11 o'clock
9						at 1 o'clock
10						at 3 o'clock
11						at 5 o'clock
12						at 7 o'clock

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. ac.	Long. by D. R.
					12-40				

# King's Voyage from Hatteras towards Port Royal

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						Thursday April 18 <sup>th</sup> 1852
2				West		Commenced with S.W. - Boreas & pleasant
3						
4				to		at 1 P.M. took the ship to the
5						the Northward
6						
7				SE		Finished the main sail, set bail
8						& sent it
9						
10						at 10 P.M. lighted up in the Royal
11						& main & fore & mizzen sails
12				Variable		Winds. Light
1						Variable S.W. - S.W. with
2						heavy thunder & lightning
3						blow down the main & sent
4						in the air
5						at 2 P.M. made sail, set a set of
6						out - sails. at 6 P.M. began to blow
7						with set & set the fore & main
8						headsail.
9						at 4 P.M. in the foremast stand
10						at 10 P.M. lighted up in the
11						the foremast stand
12						

21 days

Course.	Dist.	Dif. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Dif. Long.	Long. in.	Long. by Ob.
					14 = 5				

## King's Voyage from Port Royal towards Hatteras

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						Friday April 19 <sup>th</sup>
2			SE			Commenced with variable winds
3				SE		from the N. - pleasant at 1 P.M. sent
4						the foremast stand
5						
6						sent the main & foremast for a
7						few miles
8						at 1 P.M. in the foremast the board
9						was sent
10						
11						at 1 P.M. sent the foremast for a
12						few miles
1						at 1 P.M. in the foremast the board
2						was sent
3						
4						
5						
6						
7						
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10						
11						
12						

22 days

Course.	Dist.	Dif. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Dif. Long.	Long. in.	Long. by Ob.
					14 = 8				

Day's Sailing from *St. John's* towards *Halifax*

23  
Days

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3				NE		Commenced with light breeze
4				NE		at 10.00 took in the
5						through the light breeze
6						at 11.00 took in the
7						at 12.00 took in the
8						at 1.00 took in the
9						at 2.00 took in the
10				NE		at 3.00 took in the
11						at 4.00 took in the
12						at 5.00 took in the

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					2° 45'				

24  
Days

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3				NE		Commenced with light breeze
4						at 1.30 took in the
5				NE		at 3.30 took in the
6						at 5.30 took in the
7						at 7.30 took in the
8						at 9.30 took in the
9						at 11.30 took in the
10						at 1.30 took in the
11						at 3.30 took in the
12						at 5.30 took in the

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					12° 5'				

41

x

1 Commences with light-curve  
2 from the S to and Pleasant  
3 location but all the time  
4  
5  
6 at 6:30 AM took all the Van Dine  
7 at 9:30 came to anchor with  
8 the ~~Albatross~~ in 35 fathoms  
9 made to the ~~Huskilo~~ leaving  
10 the ~~x~~ Palo Negro in view  
11 at 10:30 AM 2 miles distant  
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This Day Ends  
Sept 26th 1861

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
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[illegible]



towards

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
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[illegible]

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
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[illegible]

10  
 1852  
 from *St. Johns* towards *St. Peter*

H.	K.	H.R.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10				SE		at 8 AM moderate breeze from the North East and
11						sea pleasant weather
12				E		direction. At 10 AM the
1						South or more light breeze
2						at 11 AM
3				SE		at 12 PM the breeze light
4						at 1 PM the breeze light
5						at 2 PM the breeze light
6						at 3 PM the breeze light
7						at 4 PM the breeze light
8						at 5 PM the breeze light
9						at 6 PM the breeze light
10						at 7 PM the breeze light
11						at 8 PM the breeze light
12						at 9 PM the breeze light

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.

11  
 from *St. Peter* towards *St. John*

H.	K.	H.R.	Courses.	Winds.	Lee.	Remarks.
1			SE	SE		at 8 AM light breeze from the North East and
2			SE	SE		sea pleasant weather
3			SE	SE		at 10 AM the breeze light
4			SE	SE		at 11 AM the breeze light
5			SE	SE		at 12 PM the breeze light
6			SE	SE		at 1 PM the breeze light
7			SE	SE		at 2 PM the breeze light
8			SE	SE		at 3 PM the breeze light
9			SE	SE		at 4 PM the breeze light
10			SE	SE		at 5 PM the breeze light
11			SE	SE		at 6 PM the breeze light
12			SE	SE		at 7 PM the breeze light

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.

2-25

Sailing from *Peking* towards *Calcutta*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		South	West		
2	4					
3	2					
4	2					Point South - weathered land -
5	2					to the sea - fine location
6	2					from 2 to 6 Calcutta at 2000 the South
7	3		South	West		East on the South side of the
8	3					distance about 20 miles
9	3					
10	2					at 130 the wind blowing to the south
11	2					distance - South on the South side
12	2					and closer to the land
1	2					
2	2					
3	1					Point South - weathered land -
4	1					to the sea - fine location
5	3					from 2 to 6 Calcutta at 2000 the South
6	3					East on the South side of the
7	2					distance about 20 miles
8	3					
9	3					
10	3					at 130 the wind blowing to the south
11	3					distance - South on the South side
12	2					and closer to the land

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
					3-25			19-25	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		South	West		
2	2					
3	3		South	West		
4	3					
5	3					
6	2		South	West		
7	3					
8	3					
9	2		South	West		
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
South	60	2	34		1-8		20	17-25	

from *Cherry* towards *Isle*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1			1st	1st		
2				4		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Vari.	Diff. Long.	Long. in.	Long. by Obs.
120	6	56	16					98	56

from *Cherry* towards *Isle*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1			1st	1st		
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Vari.	Diff. Long.	Long. in.	Long. by Obs.
180	6	56	16		05	20		98	56



*Return from Norway towards Valen*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2	1	SE	SE		
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2	1				
10	2	1				
11	2	1				
12	2	1				
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2	1	SE	SE		
8	2	1				
9	2	1				
10	2	1				
11	2	1				
12	2	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	40	3° 0'	15.0		6° 1'			98.0	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	0					
2	0					
3	0	1	SE	SE		
4	0	1				
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					
1	0					
2	0					
3	0					
4	0					
5	0					
6	0	1				
7	0					
8	0					
9	0					
10	0					
11	0	1				
12	0	2				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	28	2° 26'	15.0		6° 76'		12	97° 48'	



Departure from *Barang* towards *Volcan*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1			1856	SE		Departure May 16 <sup>th</sup> 1852
2						
3						
4						
5						
6						
7						
8						
9						
10						
11				East		midnight Light Green from the westward
12						
1						at 1.30. the strong breeze from the S.W. blowing with in the distance
2				W. by N		at 4.30 the breeze
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

10 days out

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
8170	36	21-6	10-5		5-00		12	21-44	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1			1856	SE		Departure May 17 <sup>th</sup>
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

11 days

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
8256	72	42-5	7-3		9-18		40	21-39	

from Lithium from

towards 141. 2

II.	K.	II. K.	Courses.	Winds.	Loc.	Remarks.
1	1		1832	SE		at 10 miles with 1000 fathoms in 1000
2	1		1832	SE		at 10 miles with 1000 fathoms in 1000
3	1		1832	SE		at 10 miles with 1000 fathoms in 1000
4	1		1832	SE		at 10 miles with 1000 fathoms in 1000
5	1		1832	SE		at 10 miles with 1000 fathoms in 1000
6	1		1832	SE		at 10 miles with 1000 fathoms in 1000
7	1		1832	SE		at 10 miles with 1000 fathoms in 1000
8	1		1832	SE		at 10 miles with 1000 fathoms in 1000
9	1		1832	SE		at 10 miles with 1000 fathoms in 1000
10	1		1832	SE		at 10 miles with 1000 fathoms in 1000
11	1		1832	SE		at 10 miles with 1000 fathoms in 1000
12	1		1832	SE		at 10 miles with 1000 fathoms in 1000
1	1		1832	SE		at 10 miles with 1000 fathoms in 1000
2	1		1832	SE		at 10 miles with 1000 fathoms in 1000
3	1		1832	SE		at 10 miles with 1000 fathoms in 1000
4	1		1832	SE		at 10 miles with 1000 fathoms in 1000
5	1		1832	SE		at 10 miles with 1000 fathoms in 1000
6	1		1832	SE		at 10 miles with 1000 fathoms in 1000
7	1		1832	SE		at 10 miles with 1000 fathoms in 1000
8	1		1832	SE		at 10 miles with 1000 fathoms in 1000
9	1		1832	SE		at 10 miles with 1000 fathoms in 1000
10	1		1832	SE		at 10 miles with 1000 fathoms in 1000
11	1		1832	SE		at 10 miles with 1000 fathoms in 1000
12	1		1832	SE		at 10 miles with 1000 fathoms in 1000
						Course.
						Dist.
						Diff. lat.
						Dep.
						Lat. by D. R.
						Lat. by Ob.
						Varia.
						Diff. Long.
						Long. in.
						Long. by Ob.
1	1		1832	SE		at 10 miles with 1000 fathoms in 1000
2	1		1832	SE		at 10 miles with 1000 fathoms in 1000
3	1		1832	SE		at 10 miles with 1000 fathoms in 1000
4	1		1832	SE		at 10 miles with 1000 fathoms in 1000
5	1		1832	SE		at 10 miles with 1000 fathoms in 1000
6	1		1832	SE		at 10 miles with 1000 fathoms in 1000
7	1		1832	SE		at 10 miles with 1000 fathoms in 1000
8	1		1832	SE		at 10 miles with 1000 fathoms in 1000
9	1		1832	SE		at 10 miles with 1000 fathoms in 1000
10	1		1832	SE		at 10 miles with 1000 fathoms in 1000
11	1		1832	SE		at 10 miles with 1000 fathoms in 1000
12	1		1832	SE		at 10 miles with 1000 fathoms in 1000

II.	K.	H. K.	Courses.	Winds.	Lec.	Remarks.
1						... ..
2						... ..
3						... ..
4						... ..
5						... ..
6						... ..
7						... ..
8						... ..
9						... ..
10						... ..
11						... ..
12						... ..
1						... ..
2						... ..
3						... ..
4						... ..
5						... ..
6						... ..
7						... ..
8						... ..
9						... ..
10						... ..
11						... ..
12						... ..
Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in. Long. by Ob.						
200	100	...	...	...	...	...



15  
Days  
and

from *Dubouville* towards *Alou*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	2		100 S.W.	20-30		Commenced with fresh breeze and
2	6					cloudy with a heavy swell
3	6					at 1 P.M. the bar fell 2 points
4	6					at 10 took in the boat and
5	6					at 11 took in the boat and
6	6					at 12 took in the boat and
7	6					at 1 took in the boat and
8	6					at 2 took in the boat and
9	6					at 3 took in the boat and
10	6					at 4 took in the boat and
11	6					at 5 took in the boat and
12	6					at 6 took in the boat and

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100 W	148	58-7	30		11-6	4°	2-26	80-7	

15  
Days

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	6		100 S.W.	20-30		Commenced with fresh breeze and
2	6					cloudy with a heavy swell
3	6					at 1 P.M. the bar fell 2 points
4	6					at 10 took in the boat and
5	6					at 11 took in the boat and
6	6					at 12 took in the boat and
7	6					at 1 took in the boat and
8	6					at 2 took in the boat and
9	6					at 3 took in the boat and
10	6					at 4 took in the boat and
11	6					at 5 took in the boat and
12	6					at 6 took in the boat and

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100 W	163	62-6	30-6	12-8		4°	2-23	80-4	

Sig. S. from *San Juan* towards *Alone*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	✓		10/3/4	SE		Commenced with fair breeze &
2	✓					light breeze, rain by times
3	✓					light breeze, rain by times
4	✓					Commenced raining at 4 o'clock
5	✓					to 6 o'clock, rain in between
6	✓					to 8 o'clock, rain in between
7	✓					at 8 o'clock, rain in between
8	✓					at 8 o'clock, rain in between
9	✓					at 8 o'clock, rain in between
10	✓					at 8 o'clock, rain in between
11	✓					at 8 o'clock, rain in between
12	✓					at 8 o'clock, rain in between
1	✓					at 8 o'clock, rain in between
2	✓					at 8 o'clock, rain in between
3	✓					at 8 o'clock, rain in between
4	✓					at 8 o'clock, rain in between
5	✓					at 8 o'clock, rain in between
6	✓					at 8 o'clock, rain in between
7	✓					at 8 o'clock, rain in between
8	✓					at 8 o'clock, rain in between
9	✓					at 8 o'clock, rain in between
10	✓					at 8 o'clock, rain in between
11	✓					at 8 o'clock, rain in between
12	✓					at 8 o'clock, rain in between

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
10/3/4	175	59° 0' 64"			13° 5'	4°	2° 49'	85° 58'	86° 4'

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	✓		10/3/4	SE		Commenced with fair breeze and
2	✓					light breeze, rain by times
3	✓					light breeze, rain by times
4	✓					Commenced raining at 4 o'clock
5	✓					to 6 o'clock, rain in between
6	✓					to 8 o'clock, rain in between
7	✓					at 8 o'clock, rain in between
8	✓					at 8 o'clock, rain in between
9	✓					at 8 o'clock, rain in between
10	✓					at 8 o'clock, rain in between
11	✓					at 8 o'clock, rain in between
12	✓					at 8 o'clock, rain in between
1	✓					at 8 o'clock, rain in between
2	✓					at 8 o'clock, rain in between
3	✓					at 8 o'clock, rain in between
4	✓					at 8 o'clock, rain in between
5	✓					at 8 o'clock, rain in between
6	✓					at 8 o'clock, rain in between
7	✓					at 8 o'clock, rain in between
8	✓					at 8 o'clock, rain in between
9	✓					at 8 o'clock, rain in between
10	✓					at 8 o'clock, rain in between
11	✓					at 8 o'clock, rain in between
12	✓					at 8 o'clock, rain in between

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
10/3/4	175	59° 0' 64"			13° 5'	4°	2° 49'	85° 58'	86° 4'

3/6/18

2) 1/2 from ... towards ...

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
100	10	10=0	020		14=1	16	1	1	151-0

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
120	15	20=1	00		15=1	6	2	1	161-0

from						towards	
II.	K.	II. K.	Courses.	Winds.	Lee.	Remarks.	
1	✓		185	185		185 185	

20

20  
20  
20

U

U  
U  
U



Navigation from *London* towards *Spain*

29  
Days

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
100	155	59=3	43=2		1=10	12	2=29	151=50	151=24

28  
Days

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
160	162	59=4	157=4		18=21	1/2	2=46	65=41	151=16

July  
(Doubt)

25

25

25

25

Ship from *Patane* towards *Patane*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	4		W	SE		Commenced to rain, moderate rain
2	4					at 5 o'clock the rain ceased
3	4					at 6 o'clock the rain commenced again
4	4					the rain continued till 7 o'clock
5	4					at 8 o'clock the rain ceased
6	4					at 9 o'clock the rain commenced again
7	4					the rain continued till 10 o'clock
8	4					at 11 o'clock the rain ceased
9	4					at 12 o'clock the rain commenced again
10	4					the rain continued till 1 o'clock
11	4					at 2 o'clock the rain ceased
12	4					at 3 o'clock the rain commenced again

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE 1/2 W	1/2	20-8	140-5		19-32	24	2-75	175-4	62-0

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	4		W	SE		Commenced to rain, moderate rain
2	4					at 5 o'clock the rain ceased
3	4					at 6 o'clock the rain commenced again
4	4					the rain continued till 7 o'clock
5	4					at 8 o'clock the rain ceased
6	4					at 9 o'clock the rain commenced again
7	4					the rain continued till 10 o'clock
8	4					at 11 o'clock the rain ceased
9	4					at 12 o'clock the rain commenced again
10	4					the rain continued till 1 o'clock
11	4					at 2 o'clock the rain ceased
12	4					at 3 o'clock the rain commenced again

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE 1/2 W	1/2	29-1	140-5		26-38	1	2-33	175-1	7-7

from *Eding* towards *Adm*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	6		West	40		Break through of Jackson - south
2	6					at 10 miles from that point
3	6					at 10 miles from that point
4	6					at 10 miles from that point
5	6					at 10 miles from that point
6	6					at 10 miles from that point
7	6					at 10 miles from that point
8	6					at 10 miles from that point
9	6					at 10 miles from that point
10	6					at 10 miles from that point
11	6					at 10 miles from that point
12	6					at 10 miles from that point
1	6					at 10 miles from that point
2	6					at 10 miles from that point
3	6					at 10 miles from that point
4	6					at 10 miles from that point
5	6					at 10 miles from that point
6	6					at 10 miles from that point
7	6					at 10 miles from that point
8	6					at 10 miles from that point
9	6					at 10 miles from that point
10	6					at 10 miles from that point
11	6					at 10 miles from that point
12	6					at 10 miles from that point

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
West	1	8	9	4	21	1		50	57

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	6		West	40		Commenced with the vessel and
2	6					thence westward.
3	6					at 10 miles from that point
4	6					at 10 miles from that point
5	6					at 10 miles from that point
6	6					at 10 miles from that point
7	6					at 10 miles from that point
8	6					at 10 miles from that point
9	6					at 10 miles from that point
10	6					at 10 miles from that point
11	6					at 10 miles from that point
12	6					at 10 miles from that point
1	6					at 10 miles from that point
2	6					at 10 miles from that point
3	6					at 10 miles from that point
4	6					at 10 miles from that point
5	6					at 10 miles from that point
6	6					at 10 miles from that point
7	6					at 10 miles from that point
8	6					at 10 miles from that point
9	6					at 10 miles from that point
10	6					at 10 miles from that point
11	6					at 10 miles from that point
12	6					at 10 miles from that point

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
West	1	8	9	4	21	1		50	57



Run from *London* towards *Western*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	0		West	080		
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					
1	0					
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
181 W	141	22=1	1390		22=18		2=29	11=44	00=11

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	0		West	080		
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					
1	0					
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
181 W	20	24=5	1395		24=11		1=55	11=49	13=16

Wig. Hptun from *Quang*, towards *Tolson*

11.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	2		North	East		
2	2					
3	2					
4	2					Commences with light - wind
5	2					and fine weather
6	2					Front the fore top sail
7	2		North			
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					Spread East Mast-rod &
2	2					Alcock - let the top sail
3	2					
4	2					at 6 30 the boat in the sea
5	2					
6	2					
7	2					Light front - North - breeze and
8	2					fine weather, and about the fore
9	2					opencor to be in it
10	2					
11	2					
12	2					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
057 10	52	15	69-6		25-26	1/4	1-16	48 15	47-3

11.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	2		North	East		
2	2					
3	2					
4	2					Drift - back and Alcock - weather
5	2					at 6 30 the boat in the sea
6	2					
7	2					
8	2					
9	2					at 10 the boat in the sea
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					Commences with light - breeze and
5	2					fine weather, and about the fore
6	2					opencor to be in it
7	2					
8	2					
9	2					at 10 the boat in the sea
10	2					
11	2					
12	2					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
057 10	52	15	69-6		25-26	1/4	1-16	48 15	47-3

34 *from Palmy towards Salem*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

*Remarks.* *Palmyra June 27 1852*  
*Palmyra Light, prominent landmark*  
*at 11 AM. saw several small boats*  
*to the westward & several with*  
*the same light in the landward direction*  
*but a small boat and a schooner*  
*at 12 AM. saw the Island of*  
*Manzanilla bearing down, and west*  
*of it.*

*Remarks.* *Palmyra June 28 1852*  
*at 11 AM. saw several small boats*  
*and fine weather all day*  
*at 12 AM. saw the Island of*  
*Manzanilla bearing down, and west*  
*of it.*

34  
*Long*

Cours.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>1st</i>	<i>169</i>	<i>99-3</i>	<i>137</i>		<i>76-43</i>	<i>1/2</i>	<i>2-52</i>	<i>44-28</i>	<i>115-8</i>

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

*Remarks.* *Palmyra June 29 1852*  
*at 11 AM. saw several small boats*  
*and fine weather all day*  
*at 12 AM. saw the Island of*  
*Manzanilla bearing down, and west*  
*of it.*

35  
*Long*

Cours.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>1st</i>	<i>160</i>	<i>44-2</i>	<i>99-9</i>		<i>77-45</i>	<i>1/2</i>	<i>7-41</i>	<i>42-46</i>	<i>113-0</i>

From *Palmyra* towards *Salmon*

H.	K.	H.R.	Courses.	Winds.	Lec.	Remarks.
1	2	1	1/2 N 1/2 W			Commenced with moderate breeze and fine weather
2	1	1				
3	1	1	1/2 N 1/2 W			
4	1	1				
5	1	1				
6	1	1				
7	1	1	1/2 N 1/2 W			Spoke a light until 2 P.M. off
8	1	1				water. South & large swell
9	1	1				
10	1	1				
11	1	1				
12	1	1				
1	1	1	1/2 N 1/2 W			Continued with breeze and
2	1	1				clouds. Wind fresh but
3	1	1				fresh.
4	1	1				
5	1	1				
6	1	1				
7	1	1				
8	1	1				
9	1	1				Continued with breeze and
10	1	1				fine weather.
11	1	1				
12	1	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1/2 N 1/2 W	25	17	25		22	1/4	59	41-41	41-46

H.	K.	H.R.	Courses.	Winds.	Lec.	Remarks.
1	2	1	1/2 N 1/2 W			Continued with fine weather
2	1	1				and breeze.
3	1	1				
4	1	1				
5	1	1				
6	1	1				
7	1	1				
8	1	1				Spoke a light until 2 P.M. off
9	1	1				water. South & large swell
10	1	1				
11	1	1				
12	1	1				
1	1	1	1/2 N 1/2 W			Continued with breeze and
2	1	1				fine weather.
3	1	1				
4	1	1				
5	1	1				
6	1	1				
7	1	1				
8	1	1				Spoke a light until 2 P.M. off
9	1	1				water. South & large swell
10	1	1				
11	1	1				
12	1	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1/2 N 1/2 W	25	17	25		22	1/4	59	41-41	41-46



38  
Days

			from	towards		
H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. m.	Long. by Ob.
E. 3/4 S. W.	11 1/2	34	112		37 00	1	2 - 4		33 - 28

39  
Days

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. m.	Long. by Ob.
E. 1/4 S.	00	2 1/2	4 1/4		27 00	2	1 - 45		20 33

140  
11

from <i>St. John's</i> towards <i>St. John's</i>											
H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks. <i>St. John's</i> <i>St. John's</i>					
1	2										
2	2										
3	2										
4	2										
5	2										
6	2										
7	2										
8	2										
9	2										
10	2										
11	2										
12	2										
1	2										
2	2										
3	2										
4	2										
5	2										
6	2										
7	2										
8	2										
9	2										
10	2										
11	2										
12	2										
Course.			Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
			58	57	11	26-49	26	2	1-14	26-54	26-54
H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks. <i>St. John's</i> <i>St. John's</i>					
1	2										
2	2										
3	2										
4	2										
5	2										
6	2										
7	2										
8	2										
9	2										
10	2										
11	2										
12	2										
1	2										
2	2										
3	2										
4	2										
5	2										
6	2										
7	2										
8	2										
9	2										
10	2										
11	2										
12	2										
Course.			Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
			58	57	11	26-49	26	2	1-14	26-54	26-54

141  
11

Course from *Trinity* towards *Palom*

H. K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	5	beat	E		
2	5				
3	5				
4	5				
5	5				
6	5				
7	5				
8	5				
9	5				
10	5				
11	5				
12	5				
1	5	beat			
2	5				
3	5				
4	5				
5	5				
6	5				
7	5				
8	5				
9	5				
10	5				
11	5				
12	5				

42 Days

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
161.60	177	66.0	177		52.7	4	2.7	51.6	50.16

H. K.	H.K.	Courses.	Winds.	Lee.	Remarks.
-------	------	----------	--------	------	----------

1	2	SW	SW		Commenced by moderate land
2	2	SW	SW		& variable but in all on the South
3	2	SW	SW		
4	2	SW	SW		at 11 AM took the light & the other
5	2	SW	SW		at 12 light & went on board lightening
6	2	SW	SW		to the light. took the light & the
7	2	SW	SW		at 1 PM took the light & the
8	2	SW	SW		at 2 PM took the light & the
9	2	SW	SW		at 3 PM took the light & the
10	2	SW	SW		at 4 PM took the light & the
11	2	SW	SW		at 5 PM took the light & the
12	2	SW	SW		at 6 PM took the light & the
1	2	SW	SW		at 7 PM took the light & the
2	2	SW	SW		at 8 PM took the light & the
3	2	SW	SW		at 9 PM took the light & the
4	2	SW	SW		at 10 PM took the light & the
5	2	SW	SW		at 11 PM took the light & the
6	2	SW	SW		at 12 PM took the light & the
7	2	SW	SW		at 1 PM took the light & the
8	2	SW	SW		at 2 PM took the light & the
9	2	SW	SW		at 3 PM took the light & the
10	2	SW	SW		at 4 PM took the light & the
11	2	SW	SW		at 5 PM took the light & the
12	2	SW	SW		at 6 PM took the light & the

43 Days

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
161.60	177	2.4	42		52.7	3	0.7	51.6	50.16

Ship, *William* from *Success* towards *Success*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1						Friday June 1 <sup>st</sup> 1822
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
16	22	16	2	157		55 10 1/2	18	1/2 1/8	25 16

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1						Saturday June 2 <sup>nd</sup>
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
16	22	16	2	157		55 10 1/2	18	1/2 1/8	25 16



16 Day  
 from *San Francisco* towards *Dalman*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		west	2		
2	3					
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					
11	12					
12	1					
1	2					
2	3					
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					
11	12					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
West	64		64		34 40	2 1/4	1 1/2	23 27	24 20

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2		W	1/2		
2	3		SW			
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					
11	12					
12	1					
1	2					
2	3					
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					
11	12					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
W 3/4 W	60	3 1/2	59 1/2		35 57	2 1/4	1 1/2	24 19	23 20

From *St. Lawrence* from *St. Lawrence* towards *St. Lawrence*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	3		W. by N.			Commenced with light breeze
2	3		W. by N.			light breeze
3	3		W. by N.			light breeze
4	3		W. by N.			light breeze
5	4		W. by N.			light breeze
6	4		W. by N.			light breeze
7	4		W. by N.			light breeze
8	4		W. by N.			light breeze
9	4		W. by N.			light breeze
10	4		W. by N.			light breeze
11	4		W. by N.			light breeze
12	4		W. by N.			light breeze
1	4		W. by N.			light breeze
2	4		W. by N.			light breeze
3	4		W. by N.			light breeze
4	4		W. by N.			light breeze
5	4		W. by N.			light breeze
6	4		W. by N.			light breeze
7	4		W. by N.			light breeze
8	4		W. by N.			light breeze
9	4		W. by N.			light breeze
10	4		W. by N.			light breeze
11	4		W. by N.			light breeze
12	4		W. by N.			light breeze

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
W. by N.		22			22	22	22	22	22

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	3		W. by N.			Commenced with light breeze
2	3		W. by N.			light breeze
3	3		W. by N.			light breeze
4	3		W. by N.			light breeze
5	4		W. by N.			light breeze
6	4		W. by N.			light breeze
7	4		W. by N.			light breeze
8	4		W. by N.			light breeze
9	4		W. by N.			light breeze
10	4		W. by N.			light breeze
11	4		W. by N.			light breeze
12	4		W. by N.			light breeze
1	4		W. by N.			light breeze
2	4		W. by N.			light breeze
3	4		W. by N.			light breeze
4	4		W. by N.			light breeze
5	4		W. by N.			light breeze
6	4		W. by N.			light breeze
7	4		W. by N.			light breeze
8	4		W. by N.			light breeze
9	4		W. by N.			light breeze
10	4		W. by N.			light breeze
11	4		W. by N.			light breeze
12	4		W. by N.			light breeze

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
W. by N.		22			22	22	22	22	22

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
						Monday June 25 <sup>th</sup> 1880

5.1  
Dec.

51  
Camp

51  
Camp

Course.	Diat.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. by D. R.	Long. by Obs.
West	21=0		21-3		21-11	21-4	39	21-23	20-02

Ship *Light* from *Port* towards *Port*

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
Port	10	10	10	35-17	2 1/2	1	21-48	20-36	

H.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
Port	7	10	24	35-17	2 1/2	1	21-48	20-36	



54  
Days

from *W. 100* towards *W. 100*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
<i>W. 100</i>	<i>33</i>		<i>33</i>		<i>33 = 0</i>		<i>10</i>	<i>20</i>	<i>8</i>

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
<i>W. 100</i>	<i>51.8</i>	<i>1</i>	<i>33 = 7</i>	<i>100</i>	<i>98</i>		<i>47</i>	<i>19</i>	<i>21</i>

55  
Days

\* At Brazilian Look in South 63 miles from Cape  
we came in to the bay and up the river  
the wind was light - we were in the bay

26.  
2000

1871

H.	K.	H. K.	Courses.	Winds.	Lec.	Remarks.
						Monday July 2 <sup>nd</sup>

Time	Dist	Dir. Lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in.	Long. by Obs.
11.0	98	60	20		33.50	2	1 33	105 3	

58  
Danz

59  
Days

\* At 9 Let one Reef out of the top sails at 11 Let main  
Sail & Let the Reef out of the fore sail at 12 noon  
out all Reef & formation with yesterday's breeze  
and a rough sea. von - 1 gave an order they will for a 1st

60  
Sag. from Gulating towards Tjilsson

11.	K.	H. K.	Courses.	Winds.	Lec.	Remarks.
1						
2	3			de l'air		Commence à voir le vent & la mer à l'ouest
3	1					à l'ouest de la mer à l'ouest
4	1					à l'ouest de la mer à l'ouest
5	6		de l'air			à l'ouest de la mer à l'ouest
6	6		de l'air			à l'ouest de la mer à l'ouest
7	6		de l'air			à l'ouest de la mer à l'ouest
8	6		de l'air			à l'ouest de la mer à l'ouest
9	6		de l'air			à l'ouest de la mer à l'ouest
10	6		de l'air			à l'ouest de la mer à l'ouest
11	6		de l'air			à l'ouest de la mer à l'ouest
12	6		de l'air			à l'ouest de la mer à l'ouest
1	6		de l'air			à l'ouest de la mer à l'ouest
2	6		de l'air			à l'ouest de la mer à l'ouest
3	6		de l'air			à l'ouest de la mer à l'ouest
4	6		de l'air			à l'ouest de la mer à l'ouest
5	6		de l'air			à l'ouest de la mer à l'ouest
6	6		de l'air			à l'ouest de la mer à l'ouest
7	6		de l'air			à l'ouest de la mer à l'ouest
8	6		de l'air			à l'ouest de la mer à l'ouest
9	6		de l'air			à l'ouest de la mer à l'ouest
10	6		de l'air			à l'ouest de la mer à l'ouest
11	6		de l'air			à l'ouest de la mer à l'ouest
12	6		de l'air			à l'ouest de la mer à l'ouest

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N 10 E	80	26	257		32-15	23	30	16-0	16-35

11.	K.	H. K.	Courses.	Winds.	Lec.	Remarks.
1	6					
2	6					Commence à voir le vent & la mer à l'ouest
3	6					à l'ouest de la mer à l'ouest
4	6					à l'ouest de la mer à l'ouest
5	6					à l'ouest de la mer à l'ouest
6	6					à l'ouest de la mer à l'ouest
7	6					à l'ouest de la mer à l'ouest
8	6					à l'ouest de la mer à l'ouest
9	6					à l'ouest de la mer à l'ouest
10	6					à l'ouest de la mer à l'ouest
11	6					à l'ouest de la mer à l'ouest
12	6					à l'ouest de la mer à l'ouest
1	6					à l'ouest de la mer à l'ouest
2	6					à l'ouest de la mer à l'ouest
3	6					à l'ouest de la mer à l'ouest
4	6					à l'ouest de la mer à l'ouest
5	6					à l'ouest de la mer à l'ouest
6	6					à l'ouest de la mer à l'ouest
7	6					à l'ouest de la mer à l'ouest
8	6					à l'ouest de la mer à l'ouest
9	6					à l'ouest de la mer à l'ouest
10	6					à l'ouest de la mer à l'ouest
11	6					à l'ouest de la mer à l'ouest
12	6					à l'ouest de la mer à l'ouest

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N 10 E	80	26	257		32-15	23	30	16-0	16-35



Ship *John* from *Saltown* towards *Valencia*

62  
Days

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	5		<i>N. by E.</i>	<i>light</i>		
2	5					
3	5					
4	5					
5	6					
6	6					
7	6					
8	7					
9	7					
10	7					
11	6					
12	6					
1	5					
2	5					
3	5					
4	5					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>N 24° 40'</i>	<i>146</i>	<i>78° 0'</i>	<i>108° 0'</i>		<i>175° 7'</i>	<i>2°</i>	<i>2° 4'</i>	<i>10° 2'</i>	<i>10° 2'</i>

63  
Days

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	5		<i>N. by E.</i>	<i>light</i>		
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
<i>N 24° 40'</i>	<i>167</i>	<i>79°</i>	<i>104°</i>		<i>175° 15'</i>	<i>2°</i>	<i>2° 56'</i>	<i>11° 0'</i>	<i>11° 0'</i>

Rising before from *Quinn* towards *St. Ann*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2	1					
3						
4						
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
118	17	10-10-0	1		1	2 1/4	1-0-0	8-0-0	8-0-0

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
118	17	10-10-0	1		1	2 1/4	1-0-0	8-0-0	8-0-0

66  
Days

from		towards				
H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
120 in	108	74 5	67 2		100	2	104	622	100

67  
Days

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
106	106	81 9	07 2		13 19	1/2	14	500	100

68

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	1	1	1	1	1	Arrived July 18th 1880
2	1	1	1	1	1	
3	1	1	1	1	1	
4	1	1	1	1	1	
5	1	1	1	1	1	
6	1	1	1	1	1	
7	1	1	1	1	1	
8	1	1	1	1	1	
9	1	1	1	1	1	
10	1	1	1	1	1	
11	1	1	1	1	1	
12	1	1	1	1	1	
1	1	1	1	1	1	
2	1	1	1	1	1	
3	1	1	1	1	1	
4	1	1	1	1	1	
5	1	1	1	1	1	
6	1	1	1	1	1	
7	1	1	1	1	1	
8	1	1	1	1	1	
9	1	1	1	1	1	
10	1	1	1	1	1	
11	1	1	1	1	1	
12	1	1	1	1	1	

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
456	112	77:8	77:8		22=1	14	224	58:12	4=6

64  
M. H. H.

H.	K.	H. K.	Courses.	Winds.	Lec.	Remarks.
1	1					Set out on 1st day
2	2					
3	3					
4	4					
5	5					
6	6					
7	7					
8	8					
9	9					
10	10					
11	11					
12	12					
1	1					
2	2					
3	3					
4	4					
5	5					
6	6					
7	7					
8	8					
9	9					
10	10					
11	11					
12	12					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
100	29	10	66		20° 41'	1	1° 54'	1500	2° 03'



from *London* towards *London*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	0		North	SE		
2	0					
3	0					
4	0					Commenced to rain
5	0					and the weather
6	0					
7	0					
8	0			SE		
9	0					
10	0					
11	0					
12	0					
1	0					
2	0					
3	0					
4	0					West wind to come
5	0					disturbed the weather
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
156.6	121	67	100		19.42		1 1'		20.2

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	0		North	SE		
2	0					
3	0					
4	0					
5	0					Approach to the coast
6	0					from SE to SSE
7	0					from SE
8	0					
9	0					
10	0					
11	0					West wind to come
12	0					disturbed the weather
1	0					
2	0					
3	0					
4	0					
5	0					
6	0					
7	0					
8	0					
9	0					
10	0					
11	0					
12	0					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
15.10	55	55.9	65.7		18.15		4	6	1.0

*Navigation from Savary towards St. Louis*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	2			SE		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	27	1° 50'	1° 50'		1° 50'	1/2	1° 0'	2° 6'	

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	2			SE		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

Courses.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	27	1° 50'	1° 50'		1° 50'	1/2	1° 0'	2° 6'	

74  
Danz

75  
Aug

75  
Aug

75  
Aug

75  
Aug

Distance from *P. 1000* towards *1000*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7	3					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100	100	100	100		100	100	100	100	100

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	4					
11	4					
12	4					
1	4					
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100	100	100	100		100	100	100	100	100



Page 1 from [unclear] towards [unclear]

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	✓		SW	SE		
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

All things a [unclear] [unclear] [unclear]  
 Shows fine [unclear] [unclear] [unclear]  
 Shipton [unclear] [unclear] [unclear]

Complained to [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
1-6 SW	121	0 44	0 44		15 00	--	15 00	12 00	12 00

Page 2 from [unclear] towards [unclear]

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	✓		SW	SE		
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					
1	✓					
2	✓					
3	✓					
4	✓					
5	✓					
6	✓					
7	✓					
8	✓					
9	✓					
10	✓					
11	✓					
12	✓					

Through [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear] [unclear]

on [unclear] the [unclear] [unclear] [unclear]  
 [unclear] the [unclear] [unclear]

[unclear] [unclear] [unclear] [unclear]  
 [unclear] [unclear]

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
1-12 SW	120	0 0 5	0 0		2 00	1 1/2	1 48	12 00	12 03

80  
C. 1832

<i>Wing</i> from <i>Stang</i> towards <i>Stem</i>									
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks. <i>Wednesday July 25<sup>th</sup> 1832</i>			
1	0		1	5		<i>All through these four &amp; twenty hours the weather was very variable &amp; cloudy by times to render us too lazy.</i>			
2	0								
3	0								
4	0								
5	0								
6	0								
7	1								
8	1								
9	1								
10	1								
11	1								
12	1								
1	1								
2	1								
3	1								
4	1								
5	1								
6	1								
7	1								
8	1								
9	1								
10	1								
11	1								
12	1								
Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1120	15	52	284		1145	1/2	1=41	1308	13=07
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks. <i>Thursday July 26<sup>th</sup></i>			
1	1			6		<i>At 10 o'clock the wind shifted to the north &amp; the weather became very variable &amp; cloudy by times to render us too lazy.</i>			
2	1								
3	1								
4	1								
5	1								
6	1								
7	1								
8	1								
9	1								
10	1								
11	1								
12	1								
1	1					<i>At 10 o'clock the wind shifted to the north &amp; the weather became very variable &amp; cloudy by times to render us too lazy.</i>			
2	1								
3	1								
4	1								
5	1								
6	1								
7	1								
8	1								
9	1								
10	1								
11	1								
12	1								
Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1120	11	52	283		10=3	1/2	1=45	1306	13=36

81  
C. 1832

*Run from Portchester towards*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	1		46	NESE		
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

*Full moon - sunset -  
from Portchester - Portchester  
Lighthouse*

*Full moon - sunset -  
from Portchester - Portchester  
Lighthouse*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
460w	115	57	90°		9° 25'	1/2°	1-10	16. 1/2	16

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	1		46	NESE		
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					

*Full moon - sunset -  
from Portchester - Portchester  
Lighthouse*

*Full moon - sunset -  
from Portchester - Portchester  
Lighthouse*

*Full moon - sunset -  
from Portchester - Portchester  
Lighthouse*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
460w	115	57	90°		9° 25'	1/2°	1-10	16. 1/2	16

*Brig. Sptun from Peking towards Wm*

11.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	/					<i>Sunday July 29th</i>
2	/					
3	/					
4	/					
5	/					
6	/					
7	/					
8	/					
9	/					
10	/					
11	/					
12	/					
1	/					
2	/					
3	/					
4	/					
5	/					
6	/					
7	/					
8	/					
9	/					
10	/					
11	/					
12	/					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
<i>4.30</i>	<i>281</i>	<i>73</i>	<i>97</i>		<i>70.8</i>	<i>1</i>	<i>138</i>	<i>24.38</i>	<i>20-44</i>

11.	K.	H. R.	Courses.	Winds.	Lee.	Remarks.
1	/					<i>Monday July 30th</i>
2	/					
3	/					
4	/					
5	/					
6	/					
7	/					
8	/					
9	/					
10	/					
11	/					
12	/					
1	/					
2	/					
3	/					
4	/					
5	/					
6	/					
7	/					
8	/					
9	/					
10	/					
11	/					
12	/					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
<i>4.30</i>	<i>277</i>	<i>77</i>	<i>80</i>		<i>71.0</i>	<i>1</i>	<i>274</i>	<i>22.4</i>	<i>23-2</i>



86  
Danz

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6	1				Tuesday July 31 <sup>st</sup> 1882
2	6	1				
3	6	1				
4	6	1				
5	6	1				
6	6	1				Broke through to pier
7	6	1				driven through the pier
8	6	1				& turned to leeward
9	6	1				
10	6	1				
11	6	1				
12	6	1				
1	6	1				
2	6	1				
3	6	1				
4	6	1				
5	6	1				
6	6	1				
7	6	1				
8	6	1				
9	6	1				
10	6	1				
11	6	1				
12	6	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varin.	Diff. Long.	Long. in	Long. by Ob.
ASW	145	88	110.8		44.48	1	1.16	214.1	75.26

81  
Doey

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6	1	Mr	PC		Remains late, strong & dry
2	6	1				
3	6	1				Time ... ..
4	6	1				
5	6	1				
6	6	1				Dark ... ..
7	5	1	Major			... ..
8	5	1				... ..
9	6	1				
10	6	1				
11	6	1				
12	6	1				
1	5	1				
2	5	1				
3	5	1				
4	5	1				
5	6	1				
6	6	1				
7	6	1				
8	6	1				
9	6	1				
10	6	1				
11	6	1				
12	6	1				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
45° 5' W	1.8	79	15		13 26	• •	2-8	16 49	23-20

88  
2000

87  
Days

87  
Days

87  
Days

87  
Days

Boat taken from *Prize* towards *Palmer*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	5		W. N. E.	SE		
2	5					
3	5					
4	5					
5	5					
6	5		W. N. E.	SE		Steady trade - fine weather
7	5					
8	6					
9	6					
10	6					the hands became engaged
11	6					
12	6					
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					96 miles at night
11	5					
12	5					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N 33 W	120	103	67				67	3402	32-0

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	1		W. N. E.	SE		Heavy ship at night
2	4					
3	4					
4	4					
5	4		W. N. E.	SE		Steady trade - fine weather
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					
1	4					
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
N 34 W	101	100	88		2	1	68	3402	33-1

Ship's position from *London* towards *Antwerp*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	5		W. by S.	18	18	
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

99  
ay

with trues and steady  
breeze with some light  
drizzle of rain

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
W. by S.	137	114	28		25° 15'		1-19	30-30	25-25

Ship's position from *London* towards *Antwerp*

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	5		W. by S.	18	18	
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

93  
ay

with trues and steady  
breeze with some light  
drizzle of rain

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
W. by S.	137	114	28		25° 15'		1-19	30-30	25-25



94 Day Direction from *North* towards *South*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	5		Wdr	SE		Commenced rain
2	5	1				
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
21.1	58	51	21.5		58		58	55.2	56.3

95 Day Direction from *North* towards *South*

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	4		Wdr	SE		Commenced rain
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
28.6	42	35	28		58		76	55.2	60.2

96  
days

from Calcutta towards						11. 11.
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks. Friday August 10 <sup>th</sup> 1832
1	2		Water	Variable		Commenced with light wind & pleasant
2	2					
3	2					
4	2					
5	1					
6	2		Water	Co		with S.W. breeze shifted gradually with some trade in the afternoon but the fine trade
7	1					at 10 the breeze shifted
8	1					
9	1					
10	1					
11	1		Water			Windsen East fresh breeze & cloudy with fine rain
12	1					
1	1					
2	1					
3	1					
4	1					
5	1					
6	1		Water			at 10 the fresh breeze came on & continued till noon
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in. Long. by Ob.						
154 59 63 62 9 1 = 63 165 52						
H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks. Tuesday August 11 <sup>th</sup>
1	1		Water			
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
1	1					
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	1					
11	1					
12	1					
Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in. Long. by Ob.						
154 59 63 62 9 1 = 63 165 52						

98  
Days

Ship *Western* from *San Francisco* towards *Oahu*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	5					
2	5					
3	5					
4	5					
5	5					
6	5					
7	5					
8	5					
9	5					
10	5					
11	5					
12	5					
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
34	89	74° 0'	47° 4'		11° 25'		50	51° 44'	21° 35'

99  
Days

Ship *Western* from *San Francisco* towards *Oahu*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	6					
2	6					
3	6					
4	6					
5	6					
6	6					
7	6					
8	6					
9	6					
10	6					
11	6					
12	6					
1	7					
2	7					
3	7					
4	7					
5	7					
6	7					
7	7					
8	7					
9	7					
10	7					
11	7					
12	7					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
42	111	83	67° 4'		12° 46'		11	52° 11'	22° 11'

100  
Days  
out

Brig. *Repture* from *Madang* towards *Maleno*

H.	K.	IL K.	Courses.	Winds.	Lee.	Remarks.
1	4	/	Starboard			
2	4	/		South by East		
3	4	/		to		
4	4	/				
5	4	/				
6	4	/				
7	4	/				
8	4	/				
9	4	/				
10	4	/				
11	4	/				
12	4	/				
1	4	/				
2	4	/				
3	4	/				
4	4	/				
5	4	/				
6	4	/				
7	4	/				
8	4	/				
9	4	/				
10	4	/				
11	4	/				
12	4	/				

*Through four fathoms  
under Antelope bridge with  
breeze of breeze*

*We have the weather quite  
breeze and wind very light  
drifting at times*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
---------	-------	------------	------	---------------	-------------	--------	-------------	-----------	--------------

*1st 1st 1st 1st 1st 1st 1st 1st 1st 1st*

101  
Days

Brig. *Repture* from *Madang* towards *Maleno*

H.	K.	IL K.	Courses.	Winds.	Lee.	Remarks.
1	4	/	Starboard			
2	4	/		South by East		
3	4	/		to		
4	4	/				
5	4	/				
6	4	/				
7	4	/				
8	4	/				
9	4	/				
10	4	/				
11	4	/				
12	4	/				
1	4	/				
2	4	/				
3	4	/				
4	4	/				
5	4	/				
6	4	/				
7	4	/				
8	4	/				
9	4	/				
10	4	/				
11	4	/				
12	4	/				

*Commercial Corporation built  
Spice Houses of Reine  
Primitives & furnishing the long  
boat*

*through the light-house  
with a breeze of breeze*

*at the light-house breeze  
from the side*

*Commercial Corporation built  
Spice Houses of Reine  
Primitives & furnishing the long  
boat*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
---------	-------	------------	------	---------------	-------------	--------	-------------	-----------	--------------

*1st 1st 1st 1st 1st 1st 1st 1st 1st 1st*



102  
Days

Trip from <i>London</i> towards <i>Spain</i>									
H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.			
1	5		W. S. E.						
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	1		W. S. E.						
12	1								
1	5		W. S. E.						
2	5								
3	5								
4	5								
5	5								
6	5								
7	5								
8	5								
9	5								
10	5								
11	4								
12	4								

103  
Days  
not

Trip from <i>London</i> towards <i>Spain</i>									
H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.			
1	4		W. S. E.						
2	4								
3	4								
4	4								
5	5								
6	5								
7	6								
8	5								
9	5								
10	5								
11	5								
12	5								
1	5								
2	5								
3	5								
4	5								
5	6								
6	6								
7	5								
8	5								
9	5								
10	5								
11	5								
12	5								

1044

Aug

Bigg's Station from Padang towards N. 100°

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	✓	✓	N. 100°	6 1/2		
2	✓	✓				
3	✓	✓				
4	✓	✓				General view with land & sea
5	✓	✓				Course marked
6	✓	✓				
7	✓	✓				
8	✓	✓				General view with land & sea
9	✓	✓				General view with land & sea
10	✓	✓				
11	✓	✓				
12	✓	✓				
1	✓	✓				
2	✓	✓				
3	✓	✓				
4	✓	✓				
5	✓	✓				
6	✓	✓				
7	✓	✓				
8	✓	✓				
9	✓	✓				
10	✓	✓				
11	✓	✓				
12	✓	✓				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100° 10'	105	97	16 1/2		17° 9'		2° 50'	47° 31'	47° 28'

Bigg's Station from Padang towards N. 100°

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	✓	✓	N. 100°	6 1/2		
2	✓	✓				
3	✓	✓				
4	✓	✓				
5	✓	✓				
6	✓	✓				
7	✓	✓				
8	✓	✓				
9	✓	✓				
10	✓	✓				
11	✓	✓				
12	✓	✓				
1	✓	✓				
2	✓	✓				
3	✓	✓				
4	✓	✓				
5	✓	✓				
6	✓	✓				
7	✓	✓				
8	✓	✓				
9	✓	✓				
10	✓	✓				
11	✓	✓				
12	✓	✓				

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
100° 10'	105	97	16 1/2		20° 37'		2° 58'	50° 4'	50° 30'

106  
Days

Brig *Aspin* from *Panama* towards *Salem*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	1		N.W.	at		
2	1					
3	1			+		
4	1					
5	1					
6	1					
7	6	1		E.W.		
8	6	1				fine steady breeze in morning
9	6	1				clouds taken in sea and vicinity
10	1					Recess
11	1		N.W.			
12	1					
1	1					
2	1					
3	6	1				
4	6	1				
5	6					
6	6					Employed blowing ship in sea
7	6					to assist
8	6					
9	6					
10	6					fine steady breeze
11	6					
12	6					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
N.W.	158	16	158		27° 55'		2 20	51° 25'	52° 23'

107  
Days

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	5		N.W.	E.W.		
2	5					
3	5					
4	5					
5	5	1	N.W.			Heavy breeze & fine weather
6	5	1				
7	5	1	N.W.			at 4 P.M. the wind being found
8	6					to be in power & ship at 10 miles
9	6					
10	5					
11	5		E.W.			
12	5					at 3 P.M. let down & ship at 10 miles
1	1					
2	1		East			
3	1					
4	1					
5	1					
6	1					at 10 miles let down & ship at 10 miles
7	1					at 10 miles let down & ship at 10 miles
8	1					
9	1					at 10 miles let down & ship at 10 miles
10	1					
11	1					
12	1					

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
N.W.	113	18	92° 56'		27° 55'		1 27	51° 02'	52° 23'

168  
Days  
2 days

Vigilance from Padang towards Siden

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1			SW	SW		Wednesday August 22 <sup>th</sup> 1832
2	1					
3	1					
4	1					
5	1					
6	1					
7	1					
8	1					
9	1					
10	2					
11	3					
12	1					
1	2					
2	3					
3	4					
4	5					
5	6					
6	7					
7	8					
8	9					
9	10					
10	11					
11	12					

11<sup>th</sup> through the four & twenty  
hour. Invariable winds & fine  
weather

John Lloyd Hunter Ship

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
4 1/2	80	60	32		24 55		56	54 58	

Thursday August 23<sup>th</sup>

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	3		SW	SW		
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					
1	3					
2	3					
3	3					
4	3					
5	3					
6	3					
7	3					
8	3					
9	3					
10	3					
11	3					
12	3					

Light Breezes and pleasant  
weather & favourable for  
Sailing Ship on fire

Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1 1/2	58	66		25 55		57	55 55	



110  
Days  
out

*Big. Return from Excess towards - same*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	3	1	100	SE		
2	3	1				
3	3	1				
4	3	1				
5	2	1	100			
6	2	1				
7	2	1				
8	2	1				
9	2	1	100			
10	2	1				
11	2	1				
12	2	1				
1	3	1		SE		
2	3	1		SE		
3	3	1				
4	3	1				
5	2	1				
6	2	1				
7	2	1				
8	2	1				
9	2	1				
10	2	1				
11	2	1				
12	2	1				

*Light land in front of water*  
*Caution, ship*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
121	64	0	27		16-08		32	50-20	100-00

11  
Days  
out

*Return from Excess towards - same*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	3	1	100	SE		
2	3	1				
3	3	1				
4	3	1				
5	2	1	100			
6	2	1				
7	2	1				
8	2	1	100			
9	2	1				
10	2	1				
11	2	1				
12	2	1				
1	3	1				
2	3	1				
3	3	1				
4	3	1				
5	2	1				
6	2	1				
7	2	1				
8	2	1				
9	2	1				
10	2	1				
11	2	1				
12	2	1				

*Light land in front of water*  
*Caution, ship*

*Light land in front of water*  
*Caution, ship*

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
121	52	52	15		24		17	50-20	100-00

from *from* towards *to*

12  
July  
1882

II.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	9			SE		
2	9					
3	9					
4	9					
5	9					
6	9					
7	9					
8	9					
9	9					
10	9					
11	9					
12	9					
1	9					
2	9					
3	9					
4	9					
5	9					
6	9					
7	9					
8	9					
9	9					
10	9					
11	9					
12	9					

Light breeze and pleasant weather

at 6 AM saw a Ring standing to the South & was taken

at 11 AM saw a Ring standing to the South & was taken

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	64	58	27		27-5		27	56-5	57-9

110  
Days  
1882

II.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	9			SE		
2	9					
3	9					
4	9					
5	9					
6	9					
7	9					
8	9					
9	9					
10	9					
11	9					
12	9					
1	9					
2	9					
3	9					
4	9					
5	9					
6	9					
7	9					
8	9					
9	9					
10	9					
11	9					
12	9					

Commenced with fine breeze and pleasant weather  
at 10 PM some squalls & variable in all the forenoon

at 11 AM saw a Ring standing to the South & was taken

at 11 AM saw a Ring standing to the South & was taken

at 11 AM saw a Ring standing to the South & was taken

at 11 AM saw a Ring standing to the South & was taken

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
SE	82	50	40		29-5		46	57-3	57-86

Boat from Tadmor towards Tadmor

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2	1	W	W		Tuesday August 28 <sup>th</sup>
2	3					
3	2	1				
4	3					
5	3					
6	3					
7	3					
8	2					
9	2					
10	3					
11	3					
12	3					
1	2	1				
2	3					
3	3					
4	4					
5	4					
6	4					
7	4					
8	4					
9	4					
10	3					
11	3					
12	3					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
N 21 W	76	71	27		50-14		31	58-09	7-0

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	4		N 21 W			Wednesday August 29 <sup>th</sup>
2	4					
3	4					
4	4					
5	4					
6	4					
7	4					
8	2					
9	1					
10	0					
11	0					
12	0					
1	2					
2	3					
3	3					
4	3					
5	3					
6	3					
7	4					
8	4					
9	4					
10	4					
11	4					
12	4					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
N 22 W	69	64	22		51-23		50	8-38	7-49

Sept from *Padang* towards *Sumatra*

116  
Days  
out

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	1		SE	West		Commenced with fine weather
2	1					
3	1		SE			at 3 P.M. Squall. Apparent
4	1					at 4 P.M. Squall. Apparent
5	1					at 5 P.M. Squall. Apparent
6	1					at 6 P.M. Squall. Apparent
7	1					at 7 P.M. Squall. Apparent
8	1					at 8 P.M. Squall. Apparent
9	1					at 9 P.M. Squall. Apparent
10	1					at 10 P.M. Squall. Apparent
11	1					at 11 P.M. Squall. Apparent
12	1					at 12 P.M. Squall. Apparent

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
SE	129	156	75		SS		1=20	60	18

117  
Days  
out

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
1	1		SE	SE		Commenced with fine weather
2	1					at 2 P.M. Squall. Apparent
3	1					at 3 P.M. Squall. Apparent
4	1					at 4 P.M. Squall. Apparent
5	1					at 5 P.M. Squall. Apparent
6	1					at 6 P.M. Squall. Apparent
7	1					at 7 P.M. Squall. Apparent
8	1					at 8 P.M. Squall. Apparent
9	1					at 9 P.M. Squall. Apparent
10	1					at 10 P.M. Squall. Apparent
11	1					at 11 P.M. Squall. Apparent
12	1					at 12 P.M. Squall. Apparent

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in.	Long. by Ob.
SE	80	11	100		SS		1=60	23	34



Port Antonio from *Port Antonio* towards *Port Antonio*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
128 E	57	50-3	26-9		50-5		50-5	10-1	

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					
1	2					
2	2					
3	2					
4	2					
5	2					
6	2					
7	2					
8	2					
9	2					
10	2					
11	2					
12	2					

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Vari.	Diff. Long.	Long. in	Long. by Ob.
128 E	58	50	27-9		50-5		78	59-3	14-6

120  
Days

Septem from Norway towards						Remarks. Norway Sept 1st 1832					
H.	K.	H. R.	Courses.	Winds.	Lee.						
1	5	1	North	W. N. E.		Commences with light breeze and pleasant weather at the main sail & flying jib					
2	5	1									
3	5	1									
4	5	1									
5	5	1									
6	5	1		West		Weather just some what squally					
7	5	1									
8	5	1									
9	5	1									
10	5	1									
11	5	1	North			at 6.00th sent at the Royal yard					
12	5	1									
1	5	1									
2	5	1									
3	5	1									
4	5	1				Commence with moderate westerly winds and no fog clouds					
5	5	1									
6	5	1									
7	5	1									
8	5	1									
9	5	1									
10	5	1									
11	5	1									
12	5	1									
Course.		Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.	
1/2 N		60	60	0		57 11		1	75 58	75 41	

121  
Days

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.				
1	5	1	North	W. N. E.		Commences with light breeze and clouds squally making a little				
2	5	1								
3	5	1								
4	5	1								
5	5	1								
6	5	1				at 10.00th sent at the Royal yard				
7	5	1								
8	5	1								
9	5	1								
10	5	1								
11	5	1				at 6.00th sent at the Royal yard				
12	5	1								
1	5	1								
2	5	1								
3	5	1								
4	5	1				at 10.00th sent at the Royal yard				
5	5	1								
6	5	1								
7	5	1								
8	5	1								
9	5	1				Commence pleasant moderate breeze				
10	5	1								
11	5	1								
12	5	1								
Course.		Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
1/2 N		60	60	0		58 00		02	60 31	60 29

Brigantine from *Barang* towards *Orman*

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	3		SW	SW		Commenced on 1st December 1872
2	3					at 10 AM. 1st Dec. 1872
3	3					at 10 AM. 1st Dec. 1872
4	4		SW	SW		at 10 AM. 1st Dec. 1872
5	4					at 10 AM. 1st Dec. 1872
6	4					at 10 AM. 1st Dec. 1872
7	4					at 10 AM. 1st Dec. 1872
8	4					at 10 AM. 1st Dec. 1872
9	4					at 10 AM. 1st Dec. 1872
10	4					at 10 AM. 1st Dec. 1872
11	4		SW	SW		at 10 AM. 1st Dec. 1872
12	4					at 10 AM. 1st Dec. 1872
1	5					at 10 AM. 1st Dec. 1872
2	5		SW	SW		at 10 AM. 1st Dec. 1872
3	5					at 10 AM. 1st Dec. 1872
4	5		SW	SW		at 10 AM. 1st Dec. 1872
5	5					at 10 AM. 1st Dec. 1872
6	5					at 10 AM. 1st Dec. 1872
7	5					at 10 AM. 1st Dec. 1872
8	5		SW	SW		at 10 AM. 1st Dec. 1872
9	5					at 10 AM. 1st Dec. 1872
10	6					at 10 AM. 1st Dec. 1872
11	6		SW	SW		at 10 AM. 1st Dec. 1872
12	6					at 10 AM. 1st Dec. 1872

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
132 1/2	113	69-6	89		29 15	1	1 05	62 26	60 41

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	5		SW	SW		Commenced on 1st December 1872
2	6	1				at 10 AM. 1st Dec. 1872
3	6	1				at 10 AM. 1st Dec. 1872
4	6	1				at 10 AM. 1st Dec. 1872
5	6	1				at 10 AM. 1st Dec. 1872
6	6	1				at 10 AM. 1st Dec. 1872
7	6	1				at 10 AM. 1st Dec. 1872
8	6	1				at 10 AM. 1st Dec. 1872
9	6	1				at 10 AM. 1st Dec. 1872
10	6	1				at 10 AM. 1st Dec. 1872
11	6	1	SW	SW		at 10 AM. 1st Dec. 1872
12	6	1				at 10 AM. 1st Dec. 1872
1	7					at 10 AM. 1st Dec. 1872
2	7					at 10 AM. 1st Dec. 1872
3	7					at 10 AM. 1st Dec. 1872
4	7					at 10 AM. 1st Dec. 1872
5	7					at 10 AM. 1st Dec. 1872
6	7					at 10 AM. 1st Dec. 1872
7	7		SW	SW		at 10 AM. 1st Dec. 1872
8	7					at 10 AM. 1st Dec. 1872
9	7					at 10 AM. 1st Dec. 1872
10	7					at 10 AM. 1st Dec. 1872
11	7					at 10 AM. 1st Dec. 1872
12	7					at 10 AM. 1st Dec. 1872

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
159 1/2	122	78	122	46-28	46 1/2		2 39	61 05	61 17

12:41  
Camp  
out

125  
days  
1000

[illegible]



26  
Days  
and

		in from		towards		
H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	1		W	W		
2	1		W	W		
3	1		W	W		
4	1		W	W		
5	1		W	W		
6	1		W	W		
7	1		W	W		
8	1		W	W		
9	1		W	W		
10	1		W	W		
11	1		W	W		
12	1		W	W		
1	2		W	W		
2	2		W	W		
3	2		W	W		
4	2		W	W		
5	2		W	W		
6	2		W	W		
7	2		W	W		
8	2		W	W		
9	2		W	W		
10	2		W	W		
11	2		W	W		
12	2		W	W		

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
1/6/50	21	10-1	1/2		41-50		1-0	6-30	1/2

27  
Days  
and

H.	K.	H.K.	Courses.	Winds.	Lee.	Remarks.
1	3	1	W	W		
2	4	1	W	W		
3	5	1	W	W		
4	6	1	W	W		
5	7	1	W	W		
6	8	1	W	W		
7	9	1	W	W		
8	10	1	W	W		
9	11	1	W	W		
10	12	1	W	W		
1	1	1	W	W		
2	2	1	W	W		
3	3	1	W	W		
4	4	1	W	W		
5	5	1	W	W		
6	6	1	W	W		
7	7	1	W	W		
8	8	1	W	W		
9	9	1	W	W		
10	10	1	W	W		
11	11	1	W	W		
12	12	1	W	W		

Course.	Dist.	Diff. Lat.	Dep.	Lat. by D. R.	Lat. by Obs.	Varia.	Diff. Long.	Long. in	Long. by Obs.
					41-10		1-24	5-50	6-15

1918  
Luis  
Luis

1-1  
Page 1

H. K.	H. K.	Courses.	Winds.	Lee.	Remarks.
					Worms 10 <sup>th</sup> 19 <sup>th</sup>

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in.	Long. by Ob.
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157 = 15

Trig. Station from Pelham towards Seacombe

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	3		SW			Commenced with light breeze
2	3					from S.W. - direction
3	3					on S. S.W. breeze in 100 fathoms
4	3					blowing from S.W.
5	3					blowing from S.W. in 100 fathoms
6	3					blowing from S.W. in 100 fathoms
7	3					blowing from S.W. in 100 fathoms
8	3					blowing from S.W. in 100 fathoms
9	3					blowing from S.W. in 100 fathoms
10	3					blowing from S.W. in 100 fathoms
11	3					blowing from S.W. in 100 fathoms
12	3					blowing from S.W. in 100 fathoms
1	3					blowing from S.W. in 100 fathoms
2	3					blowing from S.W. in 100 fathoms
3	3					blowing from S.W. in 100 fathoms
4	3					blowing from S.W. in 100 fathoms
5	3					blowing from S.W. in 100 fathoms
6	3					blowing from S.W. in 100 fathoms
7	3					blowing from S.W. in 100 fathoms
8	3					blowing from S.W. in 100 fathoms
9	3					blowing from S.W. in 100 fathoms
10	3					blowing from S.W. in 100 fathoms
11	3					blowing from S.W. in 100 fathoms
12	3					blowing from S.W. in 100 fathoms

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					11/58				

H.	K.	H.K.	Courses.	Winds.	Lec.	Remarks.
1	3		SW			Commenced with light breeze
2	3					from S.W. - direction
3	3					on S. S.W. breeze in 100 fathoms
4	3					blowing from S.W.
5	3					blowing from S.W. in 100 fathoms
6	3					blowing from S.W. in 100 fathoms
7	3					blowing from S.W. in 100 fathoms
8	3					blowing from S.W. in 100 fathoms
9	3					blowing from S.W. in 100 fathoms
10	3					blowing from S.W. in 100 fathoms
11	3					blowing from S.W. in 100 fathoms
12	3					blowing from S.W. in 100 fathoms
1	3					blowing from S.W. in 100 fathoms
2	3					blowing from S.W. in 100 fathoms
3	3					blowing from S.W. in 100 fathoms
4	3					blowing from S.W. in 100 fathoms
5	3					blowing from S.W. in 100 fathoms
6	3					blowing from S.W. in 100 fathoms
7	3					blowing from S.W. in 100 fathoms
8	3					blowing from S.W. in 100 fathoms
9	3					blowing from S.W. in 100 fathoms
10	3					blowing from S.W. in 100 fathoms
11	3					blowing from S.W. in 100 fathoms
12	3					blowing from S.W. in 100 fathoms

Course.	Dist.	Diff. lat.	Dep.	Lat. by D. R.	Lat. by Ob.	Varia.	Diff. Long.	Long. in	Long. by Ob.
					11/58				

	H. K.	Courses.	Winds.	Lee.	Remarks.
1					Commences light night wind &
2					light weather
3					
4					at 9.30 fair fine clear light
5					fair weather
6					
7					at 10.30 took in at the Thimble
8					the line (sighting) 4.
9					at 11.00 light night bore
10					N.B. 12.1 Distance 6 miles
11					
12					at 1.00 fair fine light
1					clearing in part
2					
3					
4					at 4.00 fair fine weather
5					light bearing & fair
6					
7					at 4.30 the line is now over
8					the line
9					at 5.00 took a sight
10					at 6.00 the line came to in distance
11					the line was in the air
12					common and it comes into the eye

H.	K.	H. K.	Courses.	Winds.	Lee.	Remarks.
----	----	-------	----------	--------	------	----------

[illegible]



from

towards

H. K. H.K. Courses. Winds. Lec. Remarks.

1  
2  
3  
4  
5  
6  
7  
8  
9  
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Cour

Ob.

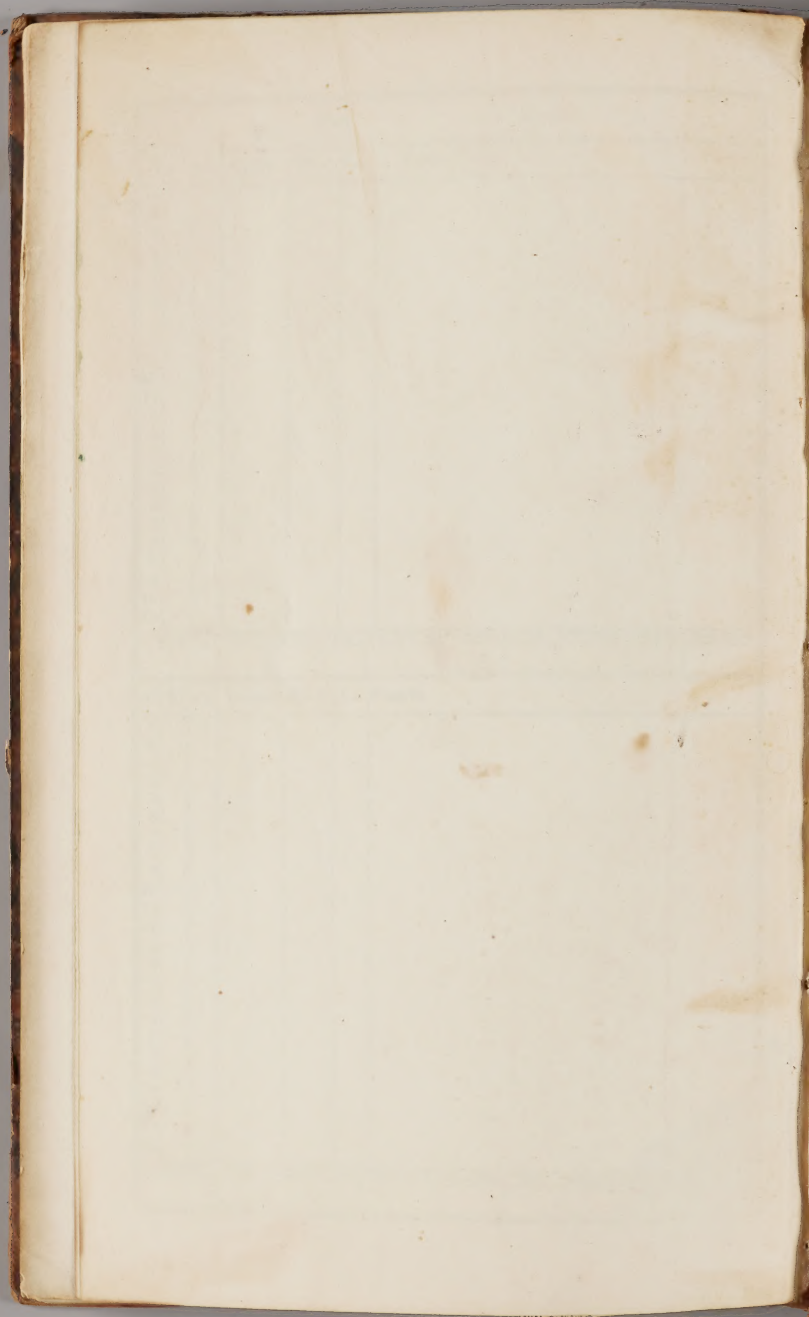
H. K.

1  
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12

Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in. Long. by Ob.

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